# The Mining Journal

# RAILWAY AND COMMERCIAL GAZETTE.

forming a complete record of the proceedings of all public companies.

No. 804.---Vol. XXI.]

LONDON, SATURDAY, JANUARY 18, 1851.

PRICE 6D.

PO RAILWAY COMPANIES, ENGINE BUILDERS, &c.

TO BE SOLD, SIX LOCOMOTIVE TENDERS, to contain 1900 gallous each, rith six wrought-iron wheels, 3 feet 6 inches diameter, buffers and springs, and bresk-rork to all the wheels; they are quite new, and may be had on extremely reasonable grass. The tyers and axles are of Bowling iron.

Apply to Waddington's Trustees' Railway Foundry, Bradford, Yorkshire.

O RAILWAY COMPANIES.

FOR SALE, BY PRIVATE ORAILWAY COMPANIES.—FOR SALE, BY PRIVATE
CONTRACT, TWO NEW first-class LOCOMOTIVE ENGINES and TENDERS,
ylinders 15 inches diameter, strokes 20 inches, crank axie, inside cylinders, 18 inches
rom centre to centre of cylinders, to prevent oscillation; outside malleable iron framing.
TWO PAIRS of 55 feet DRIVING WHEELS, coupled.
ONE PAIR of 4 feet BEARING WHEELS, in front—BULLER, 10 ft. long in the body.
139 2-inch BRASS TUBES, COPPER FIRE-BOX, and STAYS.
TENDER, 1000 gallons, with large coke space, on three pairs of 3-feet malleable iron
rheels, with double brakes.
We will be giad to treat with any company on liberal terms, and meet their wishes as
o mode and manner of payments.—Applications to be addressed to
Quarry Field Engine-Works, Gateshead.

JOHN COULTHARD & CO.

WHEAL BENNY MINE.—TO BE DISPOSED OF BY PRIVATE CONTRACT, all that valuable MINING SETT, known by the name of WHEAL BENNY, Situate in the parish of CALSTOCK, CORNWALL, together with the WATER-WHEEL, LIFTS, ZING PIPES, and OTHER MATERIALS belong-

ing to and on the mine.

This sett is very extensive, comprises part of the River Tamar, and is contiguous to Lamireroce Wheai Maria, West Wheal Williams, and other promising mines, and is held under a lease from the Duchy of Cornwall for the term of 21 years, from the 1st January, 1846, at the moderate dues of 1-12th.

Upwards of £4500 has been expended by the present adventurers in sinking a shaft and driving adit and other levels, for the purpose of proving the mine, and which, according to the opinion of the agent, is still well worthy of a further trial.

For further particulars apply to the sceretary, Mr. James Crofts, No. 4, King-street, Cheapside, London; or to the purpose, Mr. F. Cleverton, solicitor, 1, Courtenay-street, Plymouth.—Dated January 9, 1851.

MINING SETT.—A MINING SETT in the EAST of CORN-

WALL, of which several practical Miners and a Goologist have given favourable and satisfactory reports, is ready to be GRANTED on the usual mining conditions to any respectable parties having capital at hand to work it.

FIVE WELL-DEFINED LODES have been traced through the sett, and the immediate onliay to lay open the mine is estimated at a comparatively small amount. Particulars may be obtained from Mr. Colling, solicitor, Okehampton, Devon, or Capt. John Penrose, of the Devon Great Tincroft Mine, at Moretonhampstead, Devon.

None need apply who have not the means at hand to go to work, and reference estability and responsibility will be required.

TO BE LET, in Lots, for MINING PURPOSES, in NORTH WALES, for a term of 21 years, all that EXTENSIVE NGE of METALLIFER-OUS MOUNTAIN LANDS, part of the ABER HIRNANT ESTATE, within a few miles of the valuable Llanganong Lead Mines, the Ideo of which has been traced through the property, which is also intersected by various promising iodes, indicative of LEAD and COPPER-LIMESTONE abounds. The Crown claims have been redeemed. Apply for particulars to Mr. W. Jones, Lion Hotel, Bala.

TO BE SOLD, the LEABROOK WORKS, upon the Birming ham Canal, at TIPTON, in the county of Stafford, consisting of a FORGE, HOOP, and SHEET MILL, driven by separate engines, of 50 and 30-horse power, with very extensive WAREHOUSES, WHARFS, and all necessary conveniences for carrying on a large trade. The above premises have recently had a considerable sum expended upon them, and are in excellent repair, and present a very favourable opportunity for any party wishing to embark in the Manufacturing of Tin-plates.

for further particulars apply to Mr. George Payton, Handsworth, near Birmingham TO BE LET, OR SOLD.—VALUABLE COAL-FIELD FOR SALE, or LEASING, at HEMINGFIELD, near BARNSLEY.—The SEAM is the BARNSLEY THICK BED, and is most advantageously altuated, immediately ad the Ballway. The seam would be won at a comparatively small outlay of capital, and then is an unlimited demand for this coal in the London market (via the South Yorkshire and the County North Relieve Relieves).

Great Northern Bellways).
For further particulars and terms, &c., apply to Mr. T. D. Jeffcock, mining agen
No. 18, Bank-street, Sheffield.

O BE LET, a QUARRY of excellent BUILDING STONE, situated within 11 mile of the Railway Station at MOLD.—Wm. Jones, of Blacok, near Mold, will show the Quarry; and for particulars apply to Mr. Thos. Jenkin-y-ward, Ruthin.

EXTENSIVE IRON-WORKS AND MINERAL LEASES EXTENSIVE IRON-WORKS AND MINERAL LEASES FOR SALE, BY PRIVATE BARGAIN.—The BLAIR IRON-WORKS, belonging to the AYRSHIRE IRON COMPANY, situated in the parish of DALEY and county of AYR, consisting of TWO BLOWING ENGINES, FIVE BLAST-FURNACES, FOUNDRY, PIT ENGINES, and other requisite utensils for the furnaces and working the minerals, all in working order, besides nearly TWO HUNDRED WORKMEN'S HOUSES. The extensive MINERAL FIELDS consist of BLACKBAND, IRONSTONE, COALLIMESTONE, and FIRE-CLAY, held under long leases, at moderate fixed rents and royalties, all in the immediate neighbourhood of the furnaces; and the works having a connection with the Ayrshire Railway, command greatfacilities for transit and shipping of the produce. There is a large STOCK of IRONSTONE on the ground, which may be had at a valuation, and considerable progress has been made in the ERECTION OF MAILLEABLE IRON-WORKS, in connection with the furnaces, which may also be had.—The above are well worthy the attention of capitalists and parties in search of mineral fields.

For further information apply to Mr. Brown, 38, St. Vincent-place, Glasgow.

\*\*TALIJABLE COAL ENERGY OF THE PROGRESS OF THE STANDARD OF THE STANDA

VALUABLE COAL-FIELDS TO LET, in the WISHAW

ESTATE, and county of LANARK, near the junction of the Caledonian and Clydesdiale Railways, and within it 4 miles of Glasgow.—These COAL-FIELDS, which extend to
about 860 acres, will BE LET, for such a term of years as may be agreed upon in ALLOTMENTS, averaging from 70 to 120 imperial acres each, or in larger fields, if adequate
offers are made by a single party for more than one lot.

These allotments, which lie contiguous to the different going pits on the same estate,
and bordering with the extensive coal and ironstone estates of Coliness, Cleland, Carfin,
and Delziel, and partly proven by the pits and borings on the Wishaw Estate Itself, are
calculated as consisting of the following SEAMS:—

Ell Coal	Ft.	. In. Average Depth.
Ell Coal	10	0 30 fathoms.
Main and Pyotshaw	7	0 10
Splint	4	0 15
Virtue Well		
Kiltongue	4	0 20 ,,
Drumgray	3	6 8 ,,

These six seams, wherever they have been wrought, are found to be all very excel workable coal, and the first three are presently worked on this estate, and well-kn to be of the best quality; and the other three seams are found and worked in the adjoining coal-fields of the other surrounding estates, and of excellent quality size, the whole of these minerals will find ready markets by means of direct railway commostion (the Caledonian Railway running through the centre of the estate) in the clit Edinburgh and Glasgow, and towns of Leith, Perth, Dundee, Paleley, Greenoek, Fallsagow, and the other towns and harbours on a "Caledonian Railway running through the centre of the estate) in the clit means of direct railway communicentre of the estate) in the cities of Dundee, Paisley, Greenock, Portrh, Tay, and Clyde; and, in par

ticular, as there are 79 blast-furnaces within 10 miles of the estate, a ready market can also be obtained at them.

The Estate of Wishaw embraces a surface of nearly 2000 acres, and as it marches with several estates (some of them aiready noticed), where abundance of black and rough, or clay-band, ironstones of the best quality are found and wrought, it is believed that the very best black-hand ironstone, of all host 1 foot thick, and the best rough or clay-band ironstone, of about 9 inches thick all be found throughout that part of the Wishaw bores and searches are now going on to ascertain and confirm the fact; and for these ironsenes, either in large or small lots, like the coal, offers for leases will also be received.

To parties wishing to extend or bommence the coal or iron trade, the present is a most estate, and the service of the coal and ironstone can be made upon any of these all-futness as the coal of the coal and ironstone can be made upon any of these all-terments at a very moderate cost.

For particulars apply to Mr. James Miller, factor on the Wishaw Estate, at Wishawtown, who will show plans and measurements of the areas of the different lots, and also sections of the going coal-works in the same or adjacent estates, and marching with those all-terments and advisions now to be let, and furnish any other information.

Nishaw, Dec. 39, 1850.

IN THE MATTER OF THE JOINT-STOCK COMPANIES'
WINDING-UP ACTS, 1848 and 1849, and of the ASHBURTON UNITED MINES.
NOTICE IS HEREBY GIVEN, that a PETITION for the DISSOLUTION and WINDUP of the ABOVE-NAMED COMPANY, was on Thursday, the 9th day of January, 1851,
presented to the Lord Chancellor in England by Joseph Matitand, and that it is expected
such Petition will be HEARD before the Vice-Chancellor Sir Jam's Lewis Knight Brace
on FRIDAY, the 24th day of January, 1851; and any person desirous to oppose the
making of an Order Absolute for the Dissolution and Winding-up of the said Company
ander the said Acts, should appear at the time of hearing by himself, or his counsel for
that purpose, and a copy of the petition will be furnished to any contributory of the said
Company requiring the same by the undersigned, on payment of the regulated charge
for the same.

W. B. JAMES, Solictor for the Petitioner,
for the same.

MR. JAMES CROFTS, of 4, KING-STREET, CHEAPSIDE,
MINING BROKER, in renewing OFFERS of SERVICE to CAPITALISTS, feels
much gratified at the extent of patronage and confidence he has received hitherto, and
will continue so to treat the interests of his friends in town and country as to deserve a
still more important share of their orders, whether for PURCHASING or SELLING
MINING STARES.—Mr. CROFTS acts exclusively for Funcherlas, and will cheerfully
give advice on contemplated investments, so far as his knowledge or judgment permits,

TO CHAINMAKERS.—The COMMITTEE of the REGENT:

MINING SHARES.—Mr. CROFTS acts exclusively for Functrals, and will cheerfully give advice on contemplated investments, so far as his knowledge or judgment permits, either personally or by letter.

Numerous sound concerns may be safely invested in, exclusive of dividend mines, but the fatter with a certainty, for some years, of 15 to 20 per cent, per annum interest.

Mr. Cropts has speciately you Sale—

Hennock (10 shares)

Tincroft (20 shares)

Wheal Arains (20 shares)

East Tamar (20 shares)

Wheal Comfort (4 shares)

Wheal Comfort (4 shares)

Warleggan Consols (20 shares)

Warleggan Consols (20 shares)

Mr. Cropts issues a Patce Current of Mining Shares twice each week, which page be had on application.—Dated 4, King-street, Chongaide, Jan. 17, 1851.

be laid on application.—Dated 4, King-street, Cheapside, Jan. 17, 1851.

MR. EVAN HOPKINS, C.E., F.G.S., &c., CONSULTING MINING ENGINEER, OFFICE, No. 13, AUSTINFRIARS, LONDON.

Mr. HOPKINS may be consulted dully by Noblemen, Gentlemen, and Capitalists, who have invested, ow may wais to invest, their capital in MINES or MINERAL PROPERTIES, on all matters connected therewith (Home and Foreign). This office is the only one of the kind in the kingdom. No dealings in shares—is independent—having no connection with any party.

To avoid abuses, it is requested that no notice will be taken of any representations respecting mines—be they favourable or unfavourable—without being authenticated. The object is to see justice done to the capitalists and property, and consultations on questions connected with general science.

\*\*Every description Mineral Property inspected and reported on—on the Continent as well as the United Kigddom, and distant capitalists may receive periodical advice.

\*\*N.S.—Being a responsible and confidential business, and having a very extensive connection, it becomes necessary to acquaint those who apply for reports, that they must be paid for on delivery, at his office, otherwise they cannot be attended to.

MR. J. C. NESBIT, F.G.S., F.C.S., CONSULTING AND

ANALYTICAL CREMIST.

LABORATORIES—38, KENNINGTON-LANE, LONDON.

Mr. NESBIT gives PRIVATE INSTRUCTIONS in CHEMICAL ANALYSIS, and may be consulted on subjects connected with the Composition, Working, or Assaying of Micrais,—Analyses of Minerals, Slags, Soils, Manures, &c. &c., performed as usual, on noderate terms.

MR. JAMES STRIDE, formerly of the firm of Bulmer & Stride,
Parliamentary Agents, and late of Spring Gardens, MINING SHARE DEALER
and AGENT, begs to state that he now TRANSACTS MINING BUSINESS at the Parliamentary Agents, and late of Spring Gardens, MINING SHARE DEAL AGENT, begs to state that he now TRANSACTS MINING BUSINESS at JAMAICA COFFEE-HOUSE, CORNHILL, LONDON.

Considering the improving value of Mining Property, and the consequent increasing demand for Shares, Mr. Stride doems the present time favourable for offering his advicting respect to that description of property.

MINING, RAILWAY, AND AUCTION OFFICES,
52, THERADNEEDLE-STREET, LONDON.
Messrs. R. TREDINNICK & CO., in thanking their friends and the public for their
patentage at the Sale of Mining and Railway Shares, on Wednesday last, hope, by strict
attention to the interest of all parties, to receive a continuance of their support.
The NEXT SALE will be HELD on WEDNESDAY NEXT, the 22d day of January,
1851, and continued weekly.

The NEXT SALE WHILE HELD on the Head of the Next Sale with the Head of the Next Sale with the Head of the Next Sale with the Head of the H

CHEMICAL ANALYSIS, &c.—ANALYSIS and ASSAYS, or INVESTIGATIONS of ANY KIND, are UNDERTAKEN at the COLLEGE OF CHEMISTRY, LIVERPOOL.

Professor—Dr. SHERIDAN MUSPRATT, F.R.S.E.

Mon. Assistant—Mr. JOSEPH DANSON, F.C.S.

A list of Fees for Analysis, and for Students Working in the Laboratory, may be obtained by writing to Dr. Muspratt, College of Chemistry, Liverpool.

MINING COMPANY OF WALES.—PROSPECTUSES, and containing REPORTS on the MINES and QUARRIES of the COMPANY, Terms and Conditions for its Government, &c., may be had of ST. PIERRE FOLEY, Secretary, to whom letters on the allotment of shares, and on the general business of the Company, are to be addrassed.—Offices, 24, Lincoln's Inn-fields, London.

NOTICE.—The CHIEF PROPRIETORS of the

NOTICE.—The CHIEF PROPRIETORS of the ROCKS AND TREVERBYN UNITED TIN MINES, GREAT WHEAL BADDERN TIN AND LEAD.
PENDARVES AND ST. AUSYN CONSOLS TIN AND COPPER,—and UNITY CONSOLS TIN AND COPPER,—in the county of CORNWALL.
Having their OFFICE at No. 51, KING-STREET, MANCHESTER, beg leave to acquain the Public, that they have

OPENED OFFICES at No. 55, OLD BROAD-STREET, LONDON.
For the purpose of FORMING a METHOPOLITAN CONNECTION with SELECT PARTIES, who alone will be received.
For particulars apply to City —January 16, 1851.

For particulars apply to
No. 55, Old Broad-street, City.—January 16, 1851.

BOTTLE HILL TIN AND COPPER MINE,

PLYMPTON ST. MARY, NEAR PLYMOUTH, DEVON.

5250 scrip shares, of £1 each -all paid up: no further liability.

For the REMAINING SHARES applications to be made to Mr. T. Uzielli, No. 75, Old Broad-street, on or before the 18th inst. (THIS DAY), when the distribution will be made.—Any particulars respecting this mine will be furnished at the offices, No. 3 Walbrook-buildings.

THE BRITISH ELECTRIC TELEGRAPH COMPANY.

HE BRITISH ELECTRIC TELEGRAPH COMPANY

Share capital authorised to be raised by the Act, 4000 shares, of £25 each.

Deposit £2 10s. per share.

CENTRAL OFFICES—ROYAL EXCHANGE, LONDON.

DIRECTORS.

JAMES SIMPSON, Esq., C.E., and V.P. Inst. Civ. Eng., Chairman.

J. C. COBBOLD, Esq., M.P.

W. GILBERTSON, Esq.,

A. HENDERSON, Esq.

E. HIGHTON, Esq., C.E.

E. HIGHTON, Esq., M.A.

F. W.W. FEARSON, Esq., M.A.

G. G. SCOTT, Esq., M.A.

T. WEBSTER, Esq., M.A., F.R.S.

SECRETARY—Mr. GEORGE SAWARD.

BAWKERS—Messrs. Barnett, Hoares, & Co., London; the Bank of Ireland, Dublin; the Belfast Banking Company, Belfast.

England—Messrs. Bell, Steward, and Lloyd, 59, Lincoln's Inn-fields.

the Belfast Banking Company, Belfast.

England—Mesars. Bell, Steward, and Lloyd, 59, Lincoln's Inn-fields.

Ireland—A. J. Macrory, Esq., 49, Rutland-square, Dublin, and Duncairn, Belfast.

Brokes—Mesars. Millens, Marshall, and Daniell, London.

The above Company possesses the most recent improvements in Electric Telegraphs, and at the same time is free from the burden of unproductive capital.

In America, where the monopolising effects of a single company do not prevail, the Telegraphs System has made eigantic strides, and, whilst largely benefiting the public, has handsomely remunerated the proprietors.

The British Company proposes to assimilate its charges to the American Tariff, and thus to call into existence the use of the Telegraph to an extent hitherto (owing to the heavy charges in this country) not contemplated by the public.

Considerable revenue will also arise from the sale of licenses, and from the application of the Telegraph to Gas and Water-Works, Fire and Police Establishments, Mines, Docks, &c.—The Act was obtained last session, when petitions in its favour were presented from nearly every important place in Great Britain.

The British Electric Telegraph Company is making arrangements with various Railway Companies for laying Wires to the most important towns in England, Scotland, and Ireland, and is in a position at once to commence active operations.

Applications for shares may be made to the solicitors; to the secretary; or to the Company's brokers, Mesars, Mullens, Marshall, and Daniell, Lombard-street, London. J. Central Offices, London, January 10, 1851.

Company's brokers, Mesars, Mulicia, Marinal, and Parkers, Mesars, Mulicia, Marinal, and Parkers, Mesars, Mulicia, Marinal, and Parkers, Mesars, Mesars

A YOUNG MAN, fully conversant with the above profession, is desirous of of ining a PERMANENT SITUATION, having been for some time employed in an Iro strict. The fullest references as to character and ability can be given.—Apply by lette "A. B.," at Mr. William Insull's, bookseller, Store-street, Dudley.

PO CHAINMAKERS.—The COMMITTEE of the REGENT'S CANAL COMPANY are ready to RECEIVE TENDERS for the SUPPLY of THOUSAND TWO HUNDRED LINEAL YARDS OF ELEVEN-SIXTEENTHS BEST ATTESTED, CLOSE, SHORT-LINKED CHAIN, at the City-road Basin. Tenders to be delivered at this office, not later than Twelve o'clock, on the 29th inst. EDMUND L. SNEE, Secretary, Regent's Canal Office, City-road Basin, January 16, 1851.

TO PIPE-FOUNDERS.—The TOWN COUNCIL OF
LIVERPOOL are desirous to RECEIVE TENDERS for a SUPPLY of about
ONE and THREE-QUARTERS MILE of CAST-IRON PIPES, of 40 inches and 36 inches
diameter.—Specifications and other information may be obtained on application at the
Town Clerk's Office, Liverpool; and Tenders must be delivered, in manner prescribed
by the specifications, on or before Friday, the 31st day of January inst,
Town Hall, Liverpool, Jan. 13, 1851.

WM. SHUTTLEWORTH, Town Clerk?

WATER PIPES.—The DIRECTORS of the LEICESTER MATER OFFICES.—The DIRECTORS of the Inficial ER.

MATER-WORKS are desirous to RECEIVE TENDERS for about FORTY
MILES of CAST-RON SOCKET and OTHER PIPES, from 26 inches diameter to 14
inch diameter.—Applications for specifications and other information may be made to
Mr. Hawksloy, engineer, Nottingham, or at my office, in Leicester.

By order,

JOHN LOSEBY, Solicitor,

Secretary to the Company

N.B.—Tenders are to be sent in on or before the 1st day of February.

WATER-WHEEL WANTED.—WANTED, a WATER-WHEEL, 40 feet by 4 feet, with Iron Axie and best Norway Timber—in every respect substantially made.—Tenders, stating full particulars of price of the Wheel and its appendages, and in what time it may be created and in work from the date of order, to be addressed to the "Secretary of the North Wheal Robert Mining Company," No. 29, St. Helen's-place, London, on or before the 22d inst.—January 9, 1851.

WANTED.—A respectable PARTY to undertake the PRAC-TICAL MANAGEMENT of an IRON WORK in one of the English counties: he must be fully competent to conduct the whole work, from the mouth of the pit to the finished bar, hoop, or sheet-iron. Satisfactory references will be required.—Address (pre-paid) "J. S.," at the office of the Mining Journal, 26, Fleet-street, London.

EAST WHEAL JOSIAH MINE, TAVISTOCK.—
WANTED, FIFTY SHARES in this MINE, in one or more lots, to complete a
transaction.—Apply immediately, by post-paid letter, to RicLard Robins, Esq., solicitor
Tavistock, stating the number and lowest price at which they can be offered.

Dated Tavistock, January 15, 1851.

STEAM-ENGINE,—FOR SALE, a capital double cylinder HIGH-PRESSURE and CONDENSING STEAM-ENGINE, of 30-horse power, of beam censtruction, well fitted, and in excellent condition. Also, the RAILING, STEPS, and IRON FITTINGS, in connection, for the engine-house; with TWO CAST-IRON HIGH-PRESSURE BOILERS, 30-horse power each, with tubes under, furnace fittings, and all appurtenances complete. The whole is taken down, ready for removal. Apply to Messrs. Haden, engineers, Trowbridge, Wiltshire.

TO FOREIGN CAPITALISTS OR OTHERS.—TO BE DISPOSED OF, a very VALUABLE PATENT FOR FRANCE, and also ONE FOR BELGIUM, both taken out in the year 1848, for an Invention for which Letters Patent had previously been granted for Greas Britain and Sectiand, and which is now in successful operation in many of the large mining districts. The price at which the above would be sold will yield a very large return upon the parchase-money.

Full particulars may be obtained by addressing a letter (pre-pelid) to "L. M.," at the office of the Mining Journal, 26, Fleet-street, London.

WHEAL ARTHUR MINE,—Offices, 5, White Hart-court,
Lombard-street.—In consequence of the FAVOURABLE REPORTS from the
Captain, It was Resolved, at a Meeting of the Committee, held on the 17th inst.:—
That a SPECIAL GENERAL MEETING of the shareholders be convened for FRIDAY,
the 24th inst., at Twelve o'clock at noon, for the purpose of taking into consideration the
expediency of closing the share list, and on other impurtant business.
For the Report, refer to the "Mining Intelligence," in this day's Mining Journal.
W. FENTON, Secretary

TO MINE ADVENTURERS AND OTHER CAPITALISTS. MINE ADVENTURERS AND OTHER AGENT. MINE AND OTHER OF MINE AGENT. MINE AND STARRE BROKER.—
OFFICES, 57, FORE-STREET, and MORETON COTTAGE, REDRUTH, CORNWALL (will be in attendance at the QUEEN'S HOFFL, ST. MARTIN'S-LE-GRAND, LONDON, on Monday the 13th, Tuesday the 14th, and Wednesday the 15th Inst.—Hours of business from Eleven till Three o'clock).
References given of the highest respectability in London and Cornwall.
MINES INSPECTED.
WANTED,—A SECOND-HAND STEAM-ENGINE, 40-in. cylin., boilers, &c., complete.

MR. W. BIRDSEY, MINING AGENT, begs to acquaint his Friends and the Public, that he has REMOVED to No. 1, ST. MICHAEL'S-ALLEY, CORNHILL, and takes this opportunity to thank them for the favours he has bithertor received. From an extensive experience in MINING PROPERTY, in which he has been engaged upwards of 29 years, Mr. Birdsey flatters himself he will be enabled to give much general information—he having personally visited most of the mines in Cornwall.—Mr. BIRDSEY trusts, by strict attention to the interests of those who may he will have the confidence, to merit a continuance of their orders.

MR. WILLIAM RAMSDEN, MINING ENGINEER, begs to announce, that he still undertakes to INSPECT and SURVEY ESTATES. to announce, that he still undertakes to INSPECT and SURVEY ES COLLIERIES, IRON, COPPER, and LEAD MINES.—Accurate SURVEYS m ZLANS nearly executed, on the shortest notice and reasonable terms. Greenfield, near Holywell, January 16, 1851.

MR. JOHN DAVIES, MINING SHAREBROKER, MESSRS. BOXALL & CO., MINING SHARE DEALERS, 6, CROSBY HALL CHAMBERS, BISHOPSGATE-STREET, 3

CAMERON'S COALBROOK STEAM COAL & SWANSEA

AMERION S COMPANY—Notice is heavby given, that the next ORDINARY MEETING of the shareholders of this Company will be HELD at the Company's offices, 2, Moorgate-street, London, on Thursday, the 30th day of January inst., at One o'clock in the afternoon precisely, in pursuance of the provisions of the Act of Farliament relative thereto, for the purpose of receiving the Report of the Directors with reference to the Company's Railway.

By order of the Soard of Directors, 2, Moorgate-street, London, Jan. 10, 1851.

2, Moorgate-street, London, Jan. 10, 1851.

CONSOLIDATED COPPER MINES OF COBRE ASSOCIATION.—Notice is hereby given, that a HALF-YEARLY GENERAL MEET-ING of the proprietors of this Association will be HELD, in conformity with the Deed of Settlement, at the office of the Company, 26, Austintriars, on Tuesday, the 28th day of January inst, at One of clock precisely. On that day two directors—viz., 8ir John Fries, Bart., and George Whitmore, Esq.; and one auditor, Francis Mills, Esq.—will go out of office by rotation, agreeably to the Deed of Settlement, but are immediately re-eligible, and are candidates for re-election.

It is necessary that persons intending to offer themselves as Candidates for the Direction and Auditorship should leave Notice of such their intention with the Secretary, at the office of the Company, No. 26, Austinfriars, at least 1st clear days before the day of election.

26, Austinfriars, January 10, 1851.

HALF-YEARLY GENERAL MEETING of the shareholders of this Association will be HELD at the office, 34, Great Winchester-street, on Wednesday, the 29th January inst., at Twelve o'clock, for the Election of Directors, in place of Frederick Le Mesurier, Charles Hunt, and Edward Henley; and auditors, in place of Arthur Hunt; and William Brook—whose term of office then expires; and for the ordinary business of the Association.—And Notice is hereby given, that Air. William Hunry La Serre will, at this meeting, be proposed as a candidate for the office of Director of this Company.

London, January 15, 1851.

J. W. BUCKLAND, Jun., Secretary

INARES MINING ASSOCIATION.—Notice is hereby given, that the HALF-YEAR'S INTEREST, due the 18th inst., on the Prescence Shares in this Association, will be PAID at this office, on and after Thursday, the 18th inst., between the hours of Eleven and Three o'clock.

2, New Broad-street, January 8, 1851.

JNITED MEXICAN MINING ASSOCIATION UNITED MEXICAN MINING ASSOCIATION.
is hereby given, that the HALF-YEARLY GENERAL MEZITIGO of
of this Association will be HELD at the office of the Company, No. 5, Finalmy,
Wednesday, the 29th of January next, at One o'clock precisely.
The transfer books will be closed on the evening of the 18th and re-opened of
the transfer books will be closed on the evening of the 18th and re-opened of
the transfer books will be closed on the evening of the 18th and re-opened of January. By order of a Court of D. Office, 6, Finsbury-circus, London Dec. 26, 18

## Transactions of Scientific Bodies.

MEETINGS DURING THE ENSUING WEEK. Chemical—142, Strand.
Lineam—Soho-square
Civil Engineers—25, Great George-street.
Zoological—11, Hanover-square.
Wednesday Society of Arts—Adelphi
Geological—Somerset-house
Thursday Royal—Somerset-house
Antiquaries—Somerset-house
Royal Society of Literature—4, St. Martin's-place.
Friday Royal Institution—Albemarie-street.
Philogical—London Library, 12, St. James's-square.
Saturday Medical—33, George-street, Hanover-square

#### GEOLOGICAL SOCIETY.

nt), in the chair

January 8.—Sir Charles Lyell (president), in the chair.

Colonel Helmersen, Prof. Haidingen, Prof. H. G. Bronn, and J. Dana, Esq.

Colonel Helmersen, Prof. Haidingen, Prof. H. G. Bronn, and J. Dana, Esq., were elected foreign members.

The following communications were read:—

1. On the Volcanic and Tertiary Strata in the Isle of Mull. By his Grace the Duke of Argytta, F.G.S.

A general outline of the topographical and mineralogical character of the southern portion of the Isle of Mull having been premised, a detailed account of Ardtun Head, with its trap rocks and leaf-beds, was given. This headland, which divides Loch Scridden from Loch Laigh, was described by the author as being about 190 feet in height, and consisting of (in descending order)—1. Basalt, rudely columnar, 40 feet.—2. A seam of shale, 2 feet, bearing impressions of leaves and stems of plants.—3. A bed of volcanic ash, or tuff, enclosing chalk-filints, 20 feet.—4. A shale, 2½ feet, rich in impressions of leaves.—5. A second band of tuff, 7 feet.—6. A third leaf-bed, 1½ ft.—7. Amorphous basalt, 48 ft., passing into columnar basalt, that rises 10 feet above the level of low water. A ravine on the face of the cliff is the only point at which the strata are sufficiently accessible to be examined in detail; and here the beds containing the vegetable impressions are seen to dip gently towards the south, and his Grace suggested that certain coal seams, outcropping near the head of Loch Laigh, may possibly be the continuation of one or other of these leaf-beds; and if so, affording an interesting instance of the passage of nearly unaltered vegetable matter into the highly altered mineral—coal. The above-mentioned shales contain leaves of the tertiary age, which belong to extinct species of existing dicotyledonous families—viz., the plane, buckthorn, &c., and which necessarily afford a clue to the age of the accompanying lavas; leaves also of coniferous trees and ferns, and the equisetum, are present. The occurrence of the last-named plant tends to prove the former existence of marshy land at this particular locality, in the still waters of which the leaves of some adjacent forest

sheets of lava having been now poured forth, and the configuration of the country altogether changed. The conclusion of the paper comprised remarks on the probable site of the active volcanos, and the extensive forests that supplied respectively the leaves and the lavas of the Ardtun beds; and in connection with this part of the subject, reference was made to, and descriptions given of, the the basalt and accompanying lignite beds of the coast of Antrim.

2. On the Estuary Beds underlying the Oxford Clay, in the Isle of Skye. By Professor E. FORBES, V.P.G.S.—The northern cliffs of the peninsula of Trotternish, in the Isle of Skye, were described in this paper as being composed of imperfectly columnar trap, resting on colitic sandstones, limestones, and shales, the uppermost of which are the equivalents of the combrash and forest-marble. Beneath these are unquestionable representatives of the middle and inferior colitic strata, and at the base of all undoubted lias. All these secondary rocks the author observed, will some day afford a rich harvest of undescribed

marble. Beneath these are unquestionable representatives of the middle and inferior oolitic strata, and at the base of all undoubted lias. All these secondary rocks, the author observed, will some day afford a rich harvest of undescribed forms of invertebrata to the naturalist who explores them. Through the oolitic strata are seen dykes of greenstone in communication with the spread of trap above; and other trap-dykes are visible, which not only burst through the greenstone, but also through the sheet of trap capping the cliff. The strata of the cliffs dip southwards at a considerable angle, and a little way behind them rise lofty hills of amygdaloidal and zeolitic trap—the broken escarpments of which form isolated blocks and pinnacles, constituting the magnificent rockscenery of the Storr. Beneath this amygdaloidal trap, and resting on the columnar trap, before-mentioned as capping the combrash oolite, occur beds of soft shale and crumbling limestone, which Professor E. Forbes identifies—the former and upper as true Oxford clay, and the latter as the equivalent of the estuary beds of the Brora colite of the eastern coast of North Britain. Of all the fossil shells, however, obtained from the estuary deposits, it is remarkable that one only (a Hydrobia) appears to be common to the two contemporaneous formations. The author further drew attention to the fact, that the columnar basalt of Trotternish has its geological date marked to a nicety, having overflowed the strata of the middle oolitic series, and having been again covered by the beds of the upper oolite; and, further, that at the termination of the deposition of the middle oolitic strata, we have indications of most important changes, and of the conversion of the bed of the Hebridean oolitic series, and having been again to an estuarine and terrestrial area, which, after a considerable lapse of time, became submerged under oceanic conditions, and had a new series of marine strata deposited upon it.

• Papers to be read Jan. 22:—1. "On the Superficial Accumulations of the Coasts of the English Channel, and the Changes they indicate," by R. A. C. Austin, Esq., F.G.S.—2. "On certain Greensand Corals," by W. Lonsdale, Esq., F.G.S.

#### INSTITUTION OF CIVIL ENGINEERS.

JANUARY 14 .- WILLIAM CUBITT, Esq. (president), in the chair.

INSTITUTION OF CIVIL ENGINEERS.

January 14.—WILLIAM CUBITT, Esq. (president), in the chair.

The paper read was "On the Construction of the Building for the Exhibition of the Works of Industry of all Nations, in 1851," by Mr. M. D. Wyatt, Assoc. Inst. C.E.

The paper, which was unavoidably of very considerable length, commenced by characterizing the first attempt to concentrate within the compass of a few acres, specimens of the productive industry of all nations, as a "great experiment," worthy of being tried upon a scale commensurate with the energy of the industrial resources of this country. The success of this experiment must depend on a just apprehension of the results to be produced; a well-digested scheme for producing the results aimed at; and power and dexterity to arrange the whole, so as to insure the accordance and working of all its parts in the simplest and best manner. The subject then naturally divided itself into the consideration of the requisites demanded—the design, and the actual construction of the building.

The features of all the buildings in which previous exhibitions had been held, both abroad and at home, were then carefully reviewed, and the points of difference between the present cosmopolitan exhibition and all its predecessors, were distinctly enunciated, and shown to have induced the invitation to the world at large, to contribute their suggestions for the building, the results of which were shown to the public in the Theatre of the Institution of Civil Engineers, in the 240 plans there exhibited. None of these plans being found to embrace the necessary requisites, the Royal Commissioners devised a plan, for the execution of which tenders were invited in June, 1850. The reservation having been made, that bond fide tenders for any construction, offering greater advantages than that proposed by the Commissioners, would be considered, Mr. Paxton brought forward his proposition; and it being contended, that certain advantages in celerity of construction, facility of removal, the a

sidered, Mr. Paxton brought forward his proposition; and it being contended, that certain advantages in celerity of construction, facility of removal, the adaptability of the materials to the required forms, and the amount of cost, were inherent in the design for the proposed structure, to be entirely composed of wood, iron, and glass, the other tenders were rejected, and that of Messrs. Fox, Henderson, and Co., for Mr. Paxton's design, was accepted.

Such was the origin of the present building, which being adapted to the site selected for it, in Hyde Park, by H.R.H. Prince Albert, was shown to consist of a nave 72 ft. wide, and 64 ft. high, with a series of side aisles, two of 48 ft. and six of 24 feet wide, of the respective heights of 43 feet and 23 feet; the whole spreading to a width of 436 feet. A transept, 408 feet long and 72 feet wide, intersected the building at right angles in the centre; this transept was covered with a semi-circular roof, springing at a height of 64 ft. from the level of the ground, and making the entire height 100 feet.

The details of the construction were very minutely given, from the concrete filling of the holes in the ground, under each support, through the base plate, the columns, 8 in. in diameter, the connecting pieces, to which were attached the girders for the galleries, the second and third sets of columns and the roof trusses, the box gutters and the "Paxton" gutters, which latter were intended to provide at the same time for conveying away the rain from the roof, and the condensed moisture from the inside. The total area of the ground floor was equal to 772,784 square feet, and that of the galleries to 217,100 square feet. Details were also given of the mode of conveying the rain water, &c., into the adjoining sewers, through the interior of the supporting columns; of the ventilation by means of sets of louvres, of galvanised cast-iron, placed between the columns of the extinction of fire, and for the supply of the fountains; and of the experiments for testing the gir

THE MINING JOURNAL,

In examining the power and dexterity with which the design had been realised by Messrs. Fox, Henderson, and Co—or, in other words, in the actual construction of the building—it was necessary to bear in mind, that their tender was only verbally accepted on the 26th July, 1850, that possession of the site was obtained on 30th July, that the first column was fixed of the 26th Sept., and at the present time (only 145 working days since the commencement) but little of the vast building remained to be finished. To give an idea of the vast size of this building, it was noticed, that the width of the main avenue was within 10 feet double that of the nave of St. Paul's Cathedral, whilst its length was more than four times as great. The walls of St. Paul's were 14 feet thick, those of the glass building in Hyde Park were only 8 in. St. Paul's occupied 35 years in building, whilst the Hyde Park building would be finished in less than half that number of weeks. The celerity of the construction was very remarkable. As many as 308 girders had been delivered on the ground in one week. Seven of the great trusses of the nave were raised in one day. Each man fixed about 200 superficial feet of glass per day. In order to perform this work, it was necessary to devise and employ various contrivances for economising labour; such as the asah-bar machine, the guiter machine, the morticing machine, the painting machine, the glazing machine, besides many others of an equally ingenious nature—all of which were described; and, when listening to the details, it was universally felt that England possessed mechanical and physical energies far exceeding those which gave form and being to the most celebrated monuments of antiquity.

In the course of the paper, Mr. Digby Wyatt (the author), to whom, from the commencement, had been entrusted the active superintendence of the construction of the building, paid a well-merited tribute of praise to Mr. C. H. Wild and Mr. Owen Jones, who had been associated with him; to Mr. Barry

[ The discussion on the paper will take place at the meeting of Tuesday next.]

#### IMPROVEMENTS IN RAILWAYS.

To all inquiring minds, it has long been evident that a wide field was open for improvements in the mechanical operation of our railway machinery, and these evidences are painfully substantiated by the frightful—often fatal—collisions which are continually recorded in the daily press. Among the inventions every which are continually recorded in the daily press. Among the inventions every week patented, we find one or more for improvements in the details of locomotive machinery; still accidents occur—still collisions take place—which, by other systems, might be avoided; and it is probable the time is not very far distant whea the scientific world will be convinced that a less dangerous, less costly, but equally efficacious and rapid, plan may be introduced, and advantageously supersede the locomotive altogether. No less than three patents have been taken out during the past week for railway improvements, which we now proceed to notice from the specifications:—

costly, but equally efficacious and rapid, plan may be introduced, and advantageously supersed the locomotive altogether. No less than three patents have been taken out during the past week for railway improvements, which we now proceed to notice from the specifications:—

SLIDE VALVES—Francis Edward Colegrave, of Brighton, for improvements in slide valves, in causing the driving wheels of locomotives to bite the rails, and in supplying water to steam-boilers. In working the slide valves of steamengines, according to the methods at present in use, a large amount of power is expended in overcoming the steam pressure at the back—in locomotives amounting often to 100 lbs. on the square inch. Mr. Colegrave proposes to obviate this disadvantage, by screwing on the face of the cylinder, in which are the steam ports, four atids, at a sufficient distance apart to admit of the free working of the slide valve in the usual manner. On the projecting ends of the studs are screwed four nuts, the upper surfaces of which are truly faced, and come flush on the back of the valve; a plate of iron is then placed over the back of the valve, supported by the nuts, in such manner that the valve traverses backwards and forwards between the face of the cylinder and the fixed plate, which receives the whole pressure of the steam. The valve is constructed with a moveable plate at the back, instead of being solid, which plate can be renewed when worn down by the continued friction.

For causing the wheels to bite the rails, the patentee proposes to convey a stream of heated air against the rails, immediately in front of the driving-wheels, which, in damp and slipperty weather, would be almost instantaneously dried; and also to connect together by a band the leading, driving, and trailing wheels, which, in damp and slipperty weather, would be almost instantaneously dried; and also to connect together by a band the leading, driving, and trailing wheels, which, in damp and slipperty weather, would be almost instantaneously dried; and also to

RAILWAY CATTLE INSURANCE COMPANY.—This is a company formed to guarantee the dealers in cattle against the risk and liability to losses and injury resulting from the transit of stock by railway. At present the care of stock so transmitted is left to the officials of the railway, whose precautions in packing and attending the animals are too often insufficient to ensure their arrival free from injury; and, in effect, it is found that a considerable proportion are brought to market much deteriorated in value, without any available remedy, as far as the railway companies are concerned. The parties mainly interested are the grazier, farmer, and butcher; and it is calculated that, by adopting the system of insurance on the plan pointed out by the Railway Cattle Insurance Company, the great expenses incidental to coming up with the cattle by rail may, in a great measure, be avoided. On the present system, the drover is employed to collect stock at half-a-crown a head, exclusive of carriage and incidental expenses; but in consequence of the overcrowding in trucks, and the want of careful and responsible supervision, by which there is a sensible deterioration in value and appearance, the price realised is often far less than it would be in the provinces. By the payment of an inconsiderable sum to the Insurance Company's agents, the farmer will be saved the trouble and responsibility of packing and attending his stock, which, after being so insured, would be delivered safely into the hands of the salesman. This duty is to be undertaken by the company for a trifling amount for insurance compared with what is now readlivered safely into the hands of the salesman. This duty is to be undertaken by the company for a trifling amount for insurance compared with what is now paid; and in the event of loss, or accident, the farmer will be entitled to the full or proportionate value of the cattle entrusted to the company. The mode in which the company propose to carry our their objects is by appointing officers at all the large railway stations, to take in charge all cattle to be insured, which will be effected by handing over a ticket, or receipt, in exchange for the required premium, after which the entire risk and liability will be removed from the insurer, and undertaken by the company. To alter the ordinary custom and practice of traffic is at all times a difficult matter, but it is now but badly performed, at a very greatly reduced charge, and, at the same time, insuring the parties entrusting stock to their protection from the usual losses to which they are now subjected. The plan of railway insurance for passengers has been found to answer admirably, and there is no reason why the insurance of stock should not be well worthy of patronage, provided it is carried out with honourable views and business-like arrangements.

Monster Lump of Zing Ore for the Exhibition.—A New York paper

carried out with honourable views and business-like arrangements.

MONSTER LUMP OF ZING ORE FOR THE EXHIBITION.—A New York paper says—"An encomout mass of zinc ore, from the mines of the New Jersey Exploring and Mining Company, Sussex County, recently passed through the city to the Navy-yard, Brooklyn, to be sent to the great London Exhibition. It is the pure red oxide of zinc, which is found nowhere else in the world but in Sussex County, New Jersey. The dimensions are, 5 feet long, and between 3 and 4 feet broad and deep, the weight being 16,400 lbs. or nearly 8 tons. We understand it took a week to bring it over the mountains from the mines to Dover, on one of the largest sized trucks, with a 12-horse team, and, in coming down the mountains, blocks and tackle, fastened to the trees, were required to hold it back. In coming down from Dover, on the Morris and Essex Railroad, the car it was on broke down. We rather think it will take the premium at the World's Fair."

THE BRITISH ELECTRIC TELEGRAPH COMPANY.

That the invention of the electric telegraph has hitherto only imperfectly fulfilled the great objects of its introduction, and that it is capable of vast expansion in regard to the various important purposes to which it can be applied, is universally admitted. If the public have been slower than might have been imagined in taking advantage of so admirable a system of communication, it is fair to conclude that as yet there have been obstacles to its being properly carried out, which those in whose management it has been placed have failed to appreciate or surmount. The simple fact that in the autumn of 1849, out of 5996 miles of railway, the electric telegraph was used only on 2215, may suffice to show how much remains to be done even with respect to the great lines of

ried out, which those in whose management it has been placed have failed to appreciate or surmount. The simple fact that in the autumn of 1849, out of 5996 miles of railway, the electric telegraph was used only on 2215, may suffice to show how much remains to be done even with respect to the great lines of communication throughout, and setting aside its varied application to other less imposing purposes. The additional fact also, that in the United States more than 15,000 miles of telegraph have long been at work in the transmission of intelligence, with every prospect of a much greater development of the system, affords deciave testimony that, in the practical application of this beautiful principle, we are far surpassed by our American brethren, and it is too true, also, that any comparison in this respect between ourselves and the nations of the continent will bring us to the same conclusion. It is not very essential to inquire whether this unflatering result may not be attributable to the fact that telegraphic communication has been hitherto, for all practical purposes, a monopoly, and in the hands of one company. The experience of America is of itself a tolerably decisive condemnation of the system at present adopted for making electricity available to telegraphic purposes, and a proof of the necessity for bringing it into daily and popular use.

Company was projected in the autumn of 1849, and has since obtained an Act, and in a manner which will command confidence—a company perfectly forward, whose Act of Parliament has been obtained, and which is prepared at once to carry out the principles of electric communication in a cheap and efficient manner, to the full extent that the wants of the public may require. Its main object appears to be, to bring up the transmission of intelligence to the American standard, which it is obvious cannot be done without an assimilation of charges to the American tariff. There cannot be a doubt that high charges, rendered unavoidable by the dead weight of a large unproducti

sentially promoted.

To ensure the triumph of the telegraphic system, it is justly stated that four conditions are essential—viz., cheapness, certainty, dispatch, and convenience for collecting and distributing intelligence. If the charges of the British Company are assimilated (as is intended) either to those in America, or to the postal charges prevailing in this country, previous to the introduction of the penny system, the telegraph will, no doubt, be extensively used in aid of the post. In fine, the views of the directors of the new company are sensibly and temperately stated; and we see no fair ground to suspect the soundness of the conclusions which they have arrived at. To carry out their propositions, it is now intended to issue 4000 shares, of 25t. per share, a deposit of 2t. 10s. being payable on each; such capital (100,000t) to be raised as it may be required; and when the collective benefits likely to result from the undertaking are duly weighed, it may be fairly considered to present attractions, both on public grounds and as a private investment, which widely distinguish it from the ephemeral projects that are from time to time put forth upon the public.

In America there exists near upon a score of electric telegraph companies—all of which are in good working order, and paying handsome dividends, although the cost per mile of laying down the wires is about the same as in this country, and the charge per message is two-thirds less than that demanded here. Facts like this require no comment. Surely the parent country is not inferior in business requirements, or commercial enterprise, to her sons on the other side of the Atlantic; and if 20 telegraph companies can remunerate their respective proprietaries there, there can be no hesitation in believing that in England one company, based upon such sound popular principles as the British Electric Telegraph seems to be, will be eminently profitable and successful. To ensure the triumph of the telegraphic system, it is justly stated that four

India-Rubber Gas-Holders,—Mr. J. L. Hancock has just completed four portable gas-holders, destined for the city of Mexico, which are in several respects worthy of notice. As no workmen are to be found in the capital of Montezuma capable of putting an ordinary sheet-iron gas-holder together, and as the cost of sending out competent men from this country for such a purpose would have amounted to a large sum, it was suggested that a substitute for iron might be found in canvas rendered impermeable to gas by india-rubber, and Mr. Hancock's experience was called in to aid the carrying out of the suggestion. The vessels made by him are cylindrical bags, 12 feet diameter and 15 feet high, formed of a double thickness of strong canvas, stuck together with a solution of india-rubber. Rings of three-eighth inch round iron are introduced in the sides at intervals of about a foot, so as to keep them in their circular shape, and the whole, when packed, represents a disc of 12 feet in diameter, by a few inches in thickness, in which form they are intended to be transported to their destination. The cost of each gas-holder complete is 551, or about 8d, for each cubic foot of its contents, a sum considerably less than the cost of a tank and gas-holder of this dimension, and of the usual constructive in the cost of a tank and gas-holder of this dimension, and of the usual constructive in the cost of a tank and gas-holder of this dimension, and of the usual constructive in the cost of a tank and gas-holder of this dimension, and of the usual constructive in the cost of a tank and gas-holder of this dimension, and of the usual constructive in the cost of a tank and gas-holder of this dimension, and of the usual constructive in the cost of a tank and gas-holder of this dimension, and of the usual constructive in the cost of a tank and gas-holder of this dimension. the cost of a tank and gas-holder of this dimension, and of the usual construction in this country.—Journal of Gas Lighting.

tion in this country.—Journal of Gas Lighting.

On Fire, and its Antagonists.—A series of lectures, by Mr. Pepper, on this subject, is being delivered at the Polytechnic Institution. The professor commenced by observing that it was chiefly intended for a juvenile auditory, and, therefore, any lengthened preface would be unnecessary. The audience was then reminded that the principle called "fire" had always been invested with a mysterious dignity, and was worshipped by the Persians, the Magi, and Chaldeans, as a deity, a god—that Aristotle considered it as a component part of the globe, and classed it with the earth, air, and water, calling them all elements. The sources of fire were then demonstrated, and everything the lecturer seemed to touch, even water, was resigned to the dominion of fire. Various combustions, on a large scale, then followed; one flame was 20 feet in length; also the magnificent fire-cloud, with its beautiful rolling and undulating flame; then came fire of different colours; and, last of all, fire was sent about in various parts of the lecture-room by trains of gun-cotton, reminding us adout in various parts of the lecture-room by trains of gun-cotton, reminding us of the passage of electricity. The lecture, which was applauded throughout, was attended by a crowded audience.

was attended by a crowded audience.

A CERTIFIED CURE OF SCROFULA BY HOLLOWAY'S OINTMENT AND PILLS.

—The following certificate from Mr. Thomas Alcorn, of Jerry's Plain, New South Wales, was forwarded to Professor Holloway by Mr. Pinkney, chemist, of the same place:—Jan. 1, 1849—"This is to certify, that my daughter, aged seven years, was afflicted with scorfuls for three years, and that, after she had been attended by several respectable medical practitioners without success, I was induced to try Holloway's Ointment and Pills, which remedies in about three months completely cured her, and she is now in the best of health. This can be verified by numerous persons in this vicinity, where I have resided for 22 years.

(Signed.)

R. Alcorn.

#### A Compendium of British Mining.

BY J. Y. WATSON, ESQ., F.G.S.

No. III.-THE SYSTEM OF CORNISH MINING.

The management of most of the Cornish mines (excepting those managed in London) is in the hands of a committee, consisting generally of the largest shareholders in the county, or as they are termed, in-adventurers;\* but, in many mines, a gentleman chosen from the adventurers, and called the purser. has the entire management, keeping the accounts, and paying all moneys. At the meetings of the adventurers, which, under the Cost-book System, ought to be held on the mines every two months, the purser presents a statement of the accounts, to be audited. The conducting of mines, on what is termed the "Cost-book Principle," is peculiar to the county of Cornwall, where it has for ages been recognised by the Stannary Courts, and is in itself extremely simple. There has, however, been of late much discussion upon privileges and powers, and which has tended more to mystify than to All companies for working mines, formed and carried on upor the principle of the cost-book, are especially exempt from the operation of the Joint-Stock Registration Act. The simple principle is this:—On the formation of a company a cost-book is produced; on the first page is given the name of the mine, with a form something like the following:—

We, the undersigned, do hereby consent and agree to become shareholders, rs, and partners in the — mine, situate in the parish of —, in the chares and proportions hereunder, the entirety of the said mine ded into — shares, and the mine conducted on the usual Cost-book Princi me shareholders, adventu

Under this the names of the shareholders are entered, with the number Under this the names of the shareholders are entered, with the number of shares taken by each adventurer, and he signs it opposite his name. The rules and regulations for the government of the company are then made, and entered in like manner. These generally refer to the privileges and powers of the "cost-book," provide for their being carried out, and for the general management of the company. All debts and liabilities incurred in working the mine should be paid every month, and a meeting of shareholders called every two months, to audit the accounts, examine youchers, &c. If there be debts, a call should be made to pay them off, and to provide money for the next two months' working. If any profits, vouchers, &c. If there be debts, a call should be made to pay them off, and to provide money for the next two months' working. If any profits, they should, so far as may appear prudent, be divided. By this arrangement, which is the best feature in the cost-book, every shareholder knows his liability, and can end it at any two-monthly meeting, it being part of the system (and should be provided for in the rules), that at any two-monthly meeting a shareholder may pay his proportion of debts due to that date, and "sign off" his name from the cost-book, as no longer a shareholder, and, consequently, not liable for any debts contracted after his co-invince off. Even invitage, say A. B. hes, this in Wheeless and shareholder, and, consequently, not liable for any debts contracted after his so signing off. For instance, say A B has  $\frac{1}{12}$ th in Wheal —, and the debts amount to 640l, he pays his 10l down, signs off, and in 12 months is entitled to his proportion of the value of the materials, machinery, &c., at the time of his signing off. The cost-book should be kept by the purser, or secretary, who must convene meetings, make calls, pay and receive money. It is, however, competent for the shareholders to delegate two or three of their body to act as a finance committee, and in London companies this plan is generally adopted. Under the cost-book, if a party wishes to dispose of all, or any part of his interest, a written notice to the purser, signed by the seller, and accepted by the buyer, subject to the rules and regulations of the cost-book, is sufficient; this is pasted or entered in the book, and constitutes the transfer.

Next to the purser is the head captain or manager, who superintends the

Next to the purser is the head captain or manager, who superintends the whole of the mine, and the general routine of the surface work; the underground captains seeing that the work is there conducted properly. The persons performing the work in the various parts of the mine may be di

rided into tributers, tutworkmen, and labourers.

Tributers receive a certain portion of the ore, or so much in the pound (as may be agreed upon) in the value of what they raise.† Tutworkmen work by the piece, generally calculated by the fathom; in this way the shafts are sunk, adits and levels driven, and the labour usually performed in those parts of the mine which do not produce ores; the labourers are generally employed on the surface dressing ores. So, and consist of men. generally employed on the surface dressing ores, &c., and consist of men, boys, women, and girls. The population engaged in mining in Cornwall

ye, would, and girls. The population engaged in mining in Cornwall is been estimated as follows:—
Copper: agents, 31; dressers, 266; miners, 13,737; add for unspecified

proportion, 3600—estimated total, 18,000.

Tin: agents, 2; miners, 5836; dressers, 629; labourers, 82; smelters, 34; streamers, 71; testers, 2; unspecified proportion, 1600—estimated total, 8200.

Lead: dressers, 52; agents 2; miners, 440; unspecified proportion, 100—estimated total, 600. Lime dealers, 44; clay-merchants, 9; labourers, 216; iron miners, 85; manganese miners, 69; slate quarriers, 69; unspecified assayers, 43; tin and copper miners, 4044; mixed one miners, 353; surface miners, 625; ore dressers, 427; smelters, 32; quarrymen, 222.—Total engaged in mining, exclusive of labourers, 27,422.

The deen dants on this large number will being no the total deciving

The dependants on this large number will bring up the total deriving their subsistence from mining to 100,000.

The general features of a mining district have been graphically sketched

The general features of a mining district have been graphically sketched by a talented writer—

To one unaccustomed to a mining country, the view from Carn Marth, which is a rocky eminence of 757 feet, is full of novelty. Over a surface, neither mountainous nor flat, but diversified from sea to sea by a constant series of low undulating hills and vales, the farmer and the miner seem to be occupying the country in something like the confusion of warfare. The situations of the Consolidated Mines, the United Mines, the Poldice Mine, &c., are marked out by spots a mile in length, by half a mile in breath, covered with what are termed "the deads" of the mine—i. e., slaty poisonous rubbish, thrown up in rugged heaps, which, at a distance, give the place the appearance of an encampment of soldiers' tents. This lifeless mass follows the course of the main lode (which, as has been said, generally runs cast and west), and from it, in different directions, minor branches of the same barren rubbish diverge through the fertile country, like the streams of lava from a volcano. The miner being obliged to have a shaff for air at every hundred yards, and the Stannary Laws allowing him freely to pursue his game, his hidden path is commonly to be traced by a series of heaps of "deads," which rise up among the green fields, and among the grazing cattle, like the workings of a mole. Steam-engines and ekinsi (large capstans worked by two or four horses) are scattered about; and in the neighbourhood of the old, as well as of the new, workings are sprinkled, one by one, a number of small whitewashed miners' cottages, which, being neither on a road, nor near a road, wear, to the eye of the stranger, the appearance of having been dropped down approps to nothing. Such, or not very dissimilar, is in most cases the superficial view of a country, the chief wealth of which is subterraneous. Early in the morning the scene becomes animated. From the scattered cottages, as far as the eye can reach, men, women, and children of all ages begin to

A lode, as before stated, is a crack in the rock, bearing, in shape and dimensions, the character of the convulsion that formed it; and it is in this irregular crevice that Nature has, most irregularly, deposited her mineral wealth; for the crack, or lode, is never filled with ore, but that is distered in veins and bunches, the rest of the lode beit made of quartz, mundic, and "deads." Under such circumstances, it is impossible to say beforehand where the riches of the lode exist; and,

\* All those who hold shares in a mine are called "adventurers." † The mode of ascertaining the standard of tributer's ore is not generally known. Whethe private, or tributer's, produce is under the public produce, 2 per cent. is added to the public standard, and, vice v-rsā; when the private is above the public, 2 per cent. is dedected. Supposing, therefore, the public produce is 8½, and the standard 1071. 14s.—

Fo. of Prod. of Public Public Standard. Standard. Value of Paracel. produce. Standard. Standard. per ton.  $7\frac{1}{2}$  ...  $7\frac{1}{2}$  ...  $7\frac{1}{2}$  ...  $7\frac{1}{2}$  ...  $7\frac{1}{2}$  ... 14 0 ... £109 19 0 ... £7 16 8 No. of Prod. of Public parcel. parcel. produce. Standard. Value of Parce per ton. £109 19 6 Diff ... 12 2 ..... 9½ .... 9½ 107 14 0 8½ .... deduct 1 15 0 .... 105 19 0 .... 9 13 4 £105 19 0 3 ..... 6 .... 6 .... add 4 10 0 .... 113 4 0 .... 6 14 8 24 £112 4 0

TRecently a vast improvement in the mode of descending deep mines has been acc plished, and is in successful operation at the Treavean Mine.

therefore, if its general character and appearance seem to authorise the expense, the mine is commenced in the manner before explained.

The object of perpendicular shafts and horizontal galleries is not so much to get at the ores, which are directly procured from them, as to put the lode into a state capable of being worked by a number of men; in short, to convert it into what may now be termed a mine. In the Cornish mines, the sinking of the shafts, and the driving of the levels is paid by what is termed through or taskwark—that is so much ner fathom; and in adtermed tutwork, or taskwork—that is, so much per fathom; and, in addition to this, the miners receive a small per centage of the ores, in order to induce them to keep these as separate as possible from the deads, which they would not do, unless it were thus made their interest. The lode, they would not do, unless it were thus made their interest. The lode, when divided as above described, is open to the inspection of all the labouring miners in the country; and, by a most admirable system, each mass or compartment is let, by public competition, for two months, to two or four miners, who may work it as they choose. These men undertake to break the ores, wheel them, raise them to the surface, or, as it is termed, to grass, and pay for the whole process of dressing the ores, which is bringing them to a state fit for market. The ores are sold every week by public ing them to a state fit for market. The ores are sold every week by public auction, and the miner receives immediately the tribute, or per centage, for which he agreed to work, which varies from 6d. to 13s. in 1l., accoring to the richness, or poverty, of the ores produced. The owners of the mine, or, as they are termed, the adventurers, thus avoid the necessity of overlooking the detail of so many operations, and it is evidently the inteoverlooking the detail of so many operations, and it is evidently the interest of the miner to make them gain as much as possible. Should the pitch, or compartment, turn out bad, the miner has a right, at any time, to abandon his bargain, by paying a fine of 20s. At the expiration of the lease, or whenever they may be abandoned, pitches are anew put up to auction, and let for two more months; some may be getting richer, others poor, as the work proceeds; and thus public competition practically determines, from time to time, the proper produce which the miner should receive. The different rectangle messes or niches into which the left. seeive. The different rectangular masses, or pitches, into which the lode divided by the galleries and shafts, very seldom turn out to be of similar om turn out to be of simila value; and they are, of course, worked exactly in proportion to their produce. In one compartment the whole of the ore is worked out; in another only a proportion will pay for working; while not a few turn out so poor that no one will undertake to work them at all. The pitches are, in poor that no one will undertake to work them at all. The pitches are, in most cases, taken by two miners, who relieve each other; and one often sees a father and son, who are in partnership, gradually find the lode turn out poorer and poorer, until they are at last compelled to pay their fine, and quit the ungrateful spot. The lottery in which the tributers engage abounds in blanks and prizes. Sometimes the lode gets suddenly rich, sometimes as suddenly poor, and occasionally a productive lode altogether vanishes, or, as the miners say, has taken a heave; by which they mean that some convokicing of Nature has backen the lode and response it of that some convulsion of Nature has broken the lode, and removed it offsometimes 200 or 300 feet—to the right or left. In order to determine where to find it, those well acquainted with the subject carefully observed the fracture, or broken extremity of the lode, and, from its appearance, they can determine on which side, and in what direction, to search for the lost prize. Sometimes, again, a lode which is paying very well is, all of a sudden, found to have taken horse, which means that it has split into two lodes, separated from each other by an unproductive mass, which the miners term a horse; and, although the aggregate of the two lodes frequently contains the same quantity of ore as the original single lode, yet as the expense of working is doubled, it often will not pay to work them; for in all mining operations it must be constantly remembered, that it is not the quantity, or even quality of the ores, that can induce a prudent man to work

them, if the expenses, from any circumstances, should exceed the returns.

There is no light in a mine but that afforded by the candles of the workmen; while the universal presence of water soaking through the crevices men; while the universal presence of water soaking through the crevices of the gallery, and intermixing with the dust and rubbish, keep up a constant succession of dirty puddles, rendering it no very pleasant affair going underground. Each miner has a candie, which is stuck close by him against the wall of his gallery, by means of a piece of clay; and, besides those employed in extending the gallery, there are generally one or two boys wheeling the broken ore, &c., to the shaft. Each boy has a candle affixed to his wheelbarrow, by the universal subterranean candlestick—a piece of clay. The men relieve each other every six or eight hours, and thus keep on their work uninterruptedly, except on Sundays. Notwithstanding this incessant labour, the progress of the miner in excavating his gallery is, in general, very small—1, 2, or 3 feet in a week, or a few inches daily, is often the whole amount of the united operations of 20 or 30 men. In loose lodes, and in killas districts, they cast more, but the lode is rarely so wide as the gallery, or level, so that it becomes necessary nenes oany, is often the whole amount of the united operations of 20 or 30 men. In loose lodes, and in killas districts, they cast more, but the lode is rarely so wide as the gallery, or level, so that it becomes necessary to cut away the solid rock on each side which is often very hard, even when the lode is soft.

In working by tribute, the miner naturally does all he can to enrich binerally markets.

himself, but the system is so admirably balanced and arranged by long practice and experience, that it is very difficult for him to enrich himself, without also enriching the owners or adventurers. Still, however, there are modes by which he occasionally endeavours to defraud his employer. The miners will sometimes steal each other's ores. If they come to very good lode, they will occasionally hide their ore under the rubbish very good loae, they win occasionally nate their ore under the rubbish, or deads, with the view of making the profit they are getting appear to be inconsiderable, and, of course, being able, at the end of their contract, to take on their pitch for another two months at an easy rate. They, perhaps, succeed in this; but when they go to reap the benefit of their fraud, they sometimes find that a brother miner, still more cunning than themselves, has discovered their hidden treasure, and has carried it off. The most usual mode of fraud, however, is a combination between two tributers, one of whom is working very rich, and the other very poor ores. tributers, one of whom is working very rich, and the other very poor ores. The tributer who is working poor ores has, perhaps, bargained that he is to receive 13s, out of every 20s. worth of ore; while his friend, who is working the rich ores, is to get only 1s, out of 20s. In the dark chambers working the rich ores, is 12 get only 1s. out of 20s. In the dark chambers of the mine these two men secretly agree to exchange some of their ores, and then to divide the gross profits, which are, of course, very large; for, by this arrangement, instead of 1s. they get 13s. out of 20s. for a portion of the rich ores, while they lose but a trifle on a corresponding portion of the poor ores. There are a few other methods of defrauding the adventurers; but in the diamond cut diamond system of the Cornish mines a severe check upon all such tricks is established in the appointment of a purpose of excellent prop. who are selected from a proper the working number of excellent men, who are selected from among the working miners, to superintend all their operations; these men, having been brought up in the mines, are, of course, acquainted with the whole system. They have fixed salaries of about 801. or 901. a year, and are termed captains of [To be continued in next week's Mining Journal.]

#### LITERARY NOTICE.

Patentable Invention and Scientific Evidence: with an Introductory Prefuce. By William Spence, Assoc. Inst. C.E., author of a Treatise on the Specification, &c. London: Stevens and Norton, Bell-yard, Lincoln's-inn.

cation, &c. London: Stevens and Norton, Bell-yard, Lincoln's-inn.

At a time when much excitement exists with respect to a general modification and reform in our Patent Laws, the publication of the opinions and suggestions of practical men is highly destrable. The author of the volume before us has evidently paid much attention to the subject. He has devoted the work more to a consideration of a desirable alteration in the practice of the law than in the law itself, without any prejudice to the proposed alterations of the mode of granting patents, their cost, the puriod from which they should bear date, the question as to the regulation of hearings before the attorney or Solicitor-General, the depositing of particulars of inventions, the regulation of the Enrolment-office for specifications, or the preparation of indices for public inspection, as has been proposed. The dictum on which the author founds his remarks is that patentable invention is a manufacture, and nothing else. He denies that copyright of designs, according to the Act 6 and 7 Vic., c. 67, embraces a manufacture; therefore, a patentable invention being a manufacture, cannot be protected by a registration; and, on the other hand, a design not being a manufacture, cannot be protected by a patent. In his other hand, a design not being a manufacture, cannot be protected by a patent other hand, a design not being a manufacture, cannot be protected by a patent. In his seasy on Scientific Evidence, the author investigates the nature of the inquiries in patent causes, gives a brief statement of the law as to the admissibility of scientific evidence, compares the present practice with the foregoing statement of the law, and finally suggests improvements in the practice. It is impossible to divest works of this nature of that dryness to the general reader which is inherent in the subject; but to inventors and patentees the volume will prove of much interest, and, under any actual alteration or modification of the law, or the practice, of considerable value.

NOVEL APPLICATION OF GALVANIC ACTION .- It is announced in the Madras NOVEL APPLICATION OF GALVANIC ACTION.—It is announced in the Madras Spectator, September 13, that a person in that town has discovered a substance which he calls fibre (what it is remains a secret), which, under galvanic action, contracts suddenly to one-fourth of its length, "its power being equal to 100 lbs, on every square inch of its sectional surface." The inventor has constructed a model engine to show the application of the new motive-power. A reciprocating beam attached to an ordinary crank, with fly-wheel of about 4 feet in diameter, is fitted at each end with a cylindrical plees of the fibre, insulated by a plate of glass. Near the frame is a small galvanic battery. Operations are began by giving a shock from this battery to one of the pieces of fibre, which immediately and violently contract, drawing the beam down on that side, and of course communicating motion to the crank and fly-wheel. So soon as the centre has been turned, another shock given to the opposite piece of fibre continues the motion, and the shocks being alternately repeated, the fly-wheel tre has been turned, mother stock being alternately repeated, the fly-wheel in gains an enormous speed.—The Architect and Building Gazette.

#### ON THE GEOLOGICAL AND MINERAL FEATURES OF CERTAIN DISTRICTS OF NORTH WALES .- No. VI

BY ST. PIERRE FOLEY.

CRAFNANT COPPER MINE .- On visiting this mine a few months b found the state of the works then as follows:- A crooked level driven or 8 fms. into the side of the mountain, about 480 feet above the level of the river flowing beneath, had cut a vast body of solid copper ore, which was then full in view, and at least 7 feet high and 6 feet in breadth, from which a cargo of ore has been shipped, which produced 221. per ton. A which a cargo of the has been simpled, which produced a first a driving made west at that depth to cut the lode on this body of ore, and from which cutting large quantities of ore were raised. Solid stones of pure ore were, at the time of my visit, on bank, taken from this level and sub-shaft, in weight from 1 cwt. to 3 cwts., some of which masses still remain on the flooring, as monster specimens. On my next visit, in October, I found that another great discovery had been made, 200 yards west of the level and sub-shaft just alluded to, by a small cross-cut; and here a wall, literally of solid ore, was then stripped, 8 ft. by 5 ft., but the breadth of the lode, not having been cut through, could not be conveniently ascertained. Other visits of minor note were reascepting and adjut levels diving to cut this great. not naving been calculated and the decouver of the upper level, of about 15 fms. One write trials of minor note were prosecuting, and adit levels driving to cut this great lode at a depth under the horizonal range of the upper level, of about 15 fms. On my last visit, a short time since, a third great discovery was laid open, still vestward, at a considerable distance from the one last alluded to, but exactly on the line of hearing of the lode cut in the first level, and proved by the above cross-cut. The lode at this third discovery is very rich in copper cash but not entirely solid as in the other discoveries it is about 5 ft, wide. the above cross-cut. The lode at this third discovery is very rich in copper ore, but not entirely solid, as in the other discoveries; it is about 5 ft. wide, and even at surface will make perhaps 2 tons of good ore per fin. The adit levels were still prosecuting, and the intelligent captain of the mine has the utmost confidence in attaining great bodies of ore when these adits are driven home. A sink on the second discovery was made to about 5 fms., when the mines were obliged to be discontinued, in consequence of vast springs pouring forth from all parts of this shaft in descent. Still, however, the lode proved rich, and supported its bearing character satisfactorily. Captain Treweek has commenced an adit level to command 10 or 12 fms. of this part of the mine, which he hopes to drive so as to cut the lode in two or three months. When these two levels are completed, a vast extent of rich ore ground can be commanded, and returns in propor-tion may be expected. A small cargo of ore had been shipped, a few days anterior to my last visit, which I heard obtained a high price—201. per ton.

anterior to my last visit, which I heard obtained a high price—20t. per ton. Crafuant Mine is on the side of one of those vast chains of mountains running nearly east and west through this division of North Wales. It is about three miles from the very neat village of Llanbedr, and an equal distance from Harlech. The former is a safe and convenient shipping port, from whence the ore is conveyed to market. The mine itself lies in elay and porphyritic schist, and the lode seems to be composed of very rich and porphyritic schist, and the lode seems to be composed of very rich and the lo copper pyrites, interspersed with quartz, and here and there with the black oxide of copper and copper gossan, in which traces of gold have been found. A splendid river, from a beautiful lake, Commorthin, some distance eastward, constantly flows along the base of the mine, and from which the mountain rises at an angle with the horizon of about 60°. The inclining range of the mountain in which the mine lies seems to be the same as that of the lode, and the extent of the sett is pretty considerable. As this district is rich in other minerals, scarcely as yet noticed, I will, with your permission, advert to some of them, and add a few extracts from Capt. Treweek's late reports on Crafnant Mines, in my next article.

Lincoln's Inn-Fields, London.

#### COMPENDIUM OF BRITISH MINING .- No. II. TO THE EDITOR OF THE MINING JOURNAL

SIR,-In the third paragraph, Mr. Watson states:-In commencing a mine a shaft is generally sunk about 20 or 30 fms., when an adit level is driven east and west, for the purpose of ventilating the mine, and for drawing off the water as the shafts get deoper. At every 10 fms. the shaft is sunk, similar levels to the adit are driven east and west, subdivided by small winzes of about 10 fathoms high and 16 fms. apart. The engine-shaft is always sunk to a greater depth than the lowest level, in order to keep the working shafts free from water. The ore broken from the lodes is drawn to a uring the bar a norm.

It more frequently happens that a mine commences by driving in a level at the lowest possible depth, either on the course of the lode, or by a crosscut through the country, whichever offers the greatest facility, sinking a shaft being a secondary consideration. The advantage of driving on the course of the lode is proving its quality, size, and underlay, as well as the nature of the strata it is imbedded in, and I have known such level driven

course of the lode is proving its quanty, size, and underlay, as well as the nature of the strata it is imbedded in, and I have known such level driven into a hill 50,70, and 100 fms., independent of any shaft whatever. The advantage of an adit cross-cut through the country (as at East Tolgus and other mines at this moment) is the cutting of all the lodes it passes through, and enabling you to "turn house" and drive upon either, or all of them, if thought desirable. I have known adits thus driven, lodes cut and duly explored, prior to the adventurers going to a penny expense in shaft sinking. And as regards sinking them to "20 or 30 fms. depth at the commencement, for drawing off the water," many adits are not above half that depth; 30 fms. is a deep adit in most districts.

It is far from a general custom to drive levels at every 10 fms. sunk, or to sink "small winzes 16 fms. apart." For instance, at Wolfe's engine-shaft, at Great Consols, the first level under adit is 23 fms., the next 40; below the 130 cast, the levels are 145 and 160. At Pearce's engine-shaft, below the 160—175, 188, and 200 fm. levels. At Taylor's, below the 120—135, 150, 160, and 175. Innumerable instances can be supplied from other mines. As to "small winzes," few mines have them at so short a distance as 16 fms. apart; many are three, four, and five times that distance, especially where the lode has been poor for any length; there is then little inducement to sink them, unless for purpose of ventilation. Neither is "the engine-shaft always sunk to a greater depth than the lowest levels, in order to keep the working shafts free from water." For instance, at Tresavean Mine, at this time, the old deast shaft is down 303 tathoms below adit. While Harengine-shaft always sunk to a greater depth than the lowest levels, in order to keep the working shafts free from water." For instance, at Tresavean Mine, at this time, the old east shaft is down 303 fathoms below adit, while Harvey's engine-shaft (from whence all the water is drawn out of the mine, as well as Treviskey, Trethellan, Brewer, and West Trethellan Mines) is only down to the 286 fathom level below adit; consequently, the water at east shaft (the deepest workings) has to be drawn by a flat-rod lift, 20 fms. high, to flow over to the engine shaft before it reaches adit level, and thus finds its way into the sea. There are many similar cases, where shammel engines draw water from the extreme bottoms up to a higher level, from whence it flows over to the principal engine, which lifts it to adit. It is only in deep and very productive mines that steam-whims for drawing up the ore are required or used: a vast proportion of the ore, when broken from the lodes, is drawn to surface by "horse-whims," and not by an engine, which, unless it has full work day and night, is found more expensive which, unless it has full work day and night, is found more expensive

In the sixth paragraph, Mr. Watson states :- "The monthly produce of ore is made into heaps of about 100 tons each; samples of these are sent to assayers, to determine the value according to the produce, and the samp-

to assayers, to determine the value according to the produce, and the samplings are then sold at the weekly ticketings."

Now, the fact is, that a day or two before sampling is "mixing, dividing, and weighing-in day." The captains then cause every pare of tributers to turn over their respective piles of ore, cut and divide them; from which the captain takes a sample over to the sampling-house, to have properly bucked down; from this is taken one sample by the agent, and another by the tributer, each for the purpose of getting assayed, which assay is called the miners' sample. After every pare of tributers' ore has been thus mixed and sampled, it is carried in barrows to the general pile for mixing; this is done by spreading it out into a widely remarked and sampled. is done by spreading it out into a widely rounded heap, which is turned, cut through, and mixed, as the captain directs; he then sees it all properly taken, barrow after barrow, to six different piles, called doles, to each an equal quantity; and these six doles constitute a parcel of ore ready for the

man distribution and take samples for their respective assa To show that these "heaps" of six doles each are less than 100 to refer to your weekly account of ticketings, instancing only the sale of h

VIZ.:—
Tincroft Mine had 12 "heaps," they were from 88 to 40 tons.
North Roskear 9 seven of them 80 to 51 ...
Wheal Seton 6 all of them 77 to 31 ...
South Frances 4 ...
Tip 10 9...
Tip 10 9... seven of them 80 to 51 all of them 77 to 31 69 to 47 77 to 70

South Frances 4 " 17 to 70 " 17 to 70 ".

Each "heap" being in six doles, and all the above mines prosperous, and making regular dividends. The whole sale, in fact, consisted of 52 heaps (six doles each), and were only 3546 tons, the average being 68 tons, and not 100. Well, then, the smelters' sampling agents have arrived on the floors, to take nine samples of every parcel to be offered for sale at the ticketing some 16 to 18 days after. They direct two or more doles out of every six (which a parcel contains) to be cut through from top to bottom, leaving an opening full 1 foot wide, right across the pile. They then take

shovel in hand themselves, and trim down both sides of these openings, and throw the trimmings over the pile; they trim down the sides once more, and fill a barrow with this second trimmings, which they follow from the ore floors to the sampling house, and there see it bucked down and riddled spon an iron plate to a fine powder, well mixed up together in a rounded pile, which they cut in quarters, ejecting two and retaining two parts thereof; this is again mixed, rounded, and quartered, and two parts retained as before, and mixed into a heap, from which they fill nine sample have, one for each of the smelting companies, and the captain takes one tained as before, and mixed into a heap, from which they fill nine sample bags, one for each of the smelting companies, and the captain takes one himself, on behalf of the mine. Each sample-taker conveys the bags containing these ores samplings to the assayer of his company, who tries them for copper only, and reports to his cashier the produce thereof. The average during the last quarter of a year is that 100 tons of ore yielded only 7 tons 18½ cwts. of fine copper; Wheal Maria ore being included in this, the ore from whence is regularly sampled on the last Friday in every month, and sold at the visitations on the third. Thursday after expent when that and sold at the ticketings on the third Thursday after, except when that happens blank, then they sell on the Thursday following. The intervening time allows ample means for an accurate assay and calculation being made, and transmitted separately to the various smelting establishments.

time allows ample means for an accurate assay and calculation being made, and transmitted separately to the various smelting establishments. Truro, Jan. 9.

ARGUS.
THE ORIGIN OF ORES IN LODES—THE PENTIRE GLAZE MINE. Str.,—I should feel obliged by your, allowing me space to ask a few questions, and to make a few remarks, on the report of Pentire Glaze Mine—your correspondent, Mr. Rowlandson, having some knowledge of that locality, and the large north and south lode, and about the quantity of lead taken from it by Messra Williams and Co. I had set the lode down for a large regular champion one, extending in a direct and continuous line to or about a mine on the west side of the River Camel, formerly calcel Legossic, and continuing on from thence south—being at all times willing to give preference to scientific knowledge, and particularly such as we may expect from Mr. Rowlandson. Though many of his remarks are quite new to me, I am extremely obliged for his laying them before the public. The old adage says—"A man is never too old to learn;" and I have no doubt but those converted to the ingresses principle, will set down his revelations on the origin of ores in oldes as a great truth; but I venture to follow him, remarking on his interesting obstances of the property of the p THE ORIGIN OF ORES IN LODES-THE PENTIRE GLAZE MINE

#### PENTIRE GLAZE AND PENTIRE UNITED MINES.

PENTIRE GLAZE AND PENTIRE UNITED MINES.

Sire,—My attention has just been called to an article in your Journal, of the 11th inst., in which my name appears connected with your reply to "Fair-Play," and, since it is so, I feel bound, for the sake of truth, as well as in justice to those who may be more deeply concerned than myself, to inform you, and through you the public generally, that on the 21st of December last, I did, in connection with Mr. Thomas Rowlandson, inspect and report on Pentire Glaze and Pentire United Mines, and, in my opinion, we gave a very favourable report, which the circumstances of the mine warranted our doing; but, after the report had left me, some how or other, some slight alterations were made, but only one that affected the sense intended to be conveyed in the original report. I have the original by me, and on being favoured by Mr. Rankin with a circular stating the proceedings of the meeting (held in London on the 28th ult.), in which our reports appeared, I at once compared the copy with the original, and found the alterations alluded to above. On seeing this, I wrote Mr. Rankin for an explanation, to which he (Mr. Rankin) replied in a very satisfactory manner, stating that it was not his "wish nor intention to alter the report, and that it must have been done by Mr. Rowlandson in copying, and, perhaps, through oversight."

Now, Sir, having said this much, it is necessary that I should point out the alterations which maternally affect the sense and truth of the report—i. e., the interactions which maternally affect the sense and truth of the report—i. e., the

through oversight."

Now, Sir, having said this much, it is necessary that I should point out the alterations which materially affect the sense and truth of the report—i. e., the joint report of Mr. Rowlandson and myself—viz.: in the original, in speaking of the new or middle lode, we stated "that this lode has been opened on to the extent of 30 fms., 28 fms. of which is productive ground, yielding at different places, from 1½ to 2 tons of ores per fm.;" but, in the copy, the words "at different places" are omitted, and it is rendered thus, "the new or middle lode, which was discovered by driving the cross-cut west, has been operated on to the extent of 30 fathoms, 28 fms. of which is productive ground, yielding from 1½ to 2 tons per fathom." This is the only omission that I see worth noticing, although there are some other words left out that neither alter the sense, nor affect the truth of the report.

though there are some other words left out that neither alter the sense, no feet the truth of the report.

As regards the 22 fathom level, 1 think, if your correspondent, "Fair-Play," there is any ore in the 22 fm. level, but that they are driving north toward the ore ground gone down in the bottom of the 10 fm. level: at the end of the word, "north" is a period, which, of course, ends the sentence. In the second sentence, where the lode is described, it refers to the backs, and not to the lode

in the end.

Your correspondent suggests that the reports were got up for the purpose of enticing capitalists to take shares; but I must beg to inform him that I will not lend myself to further such an object, or allow any one to use my name, but in a straightforward bond fide manner. I gave a separate report to Mr. Rankin which he is welcome to publish, the truth of which I am prepared to defend Thus, Sir, I have given you a brief statement of facts, and hope they will satisfy all parties concerned.—ROBERT DUNSTAN: West Caradon, Jan. 13.

#### PENTIRE GLAZE AND PENTIRE UNITED MINES.

PENTIRE GLAZE AND PENTIRE UNITED MINES.

SIR,—A remark in the Mining Journal of last week, under the signature of Fair Play," has been pointed out to me, in which I, as agent of the mine, an alluded to. The report, as presented to the meeting, I received, on Monday last, from Mr. Rankin, the purser. On the 21st of Dec. last, Mr. Rowlandson, Captain Dunstan, and myself, inspected the mines, and made a joint report thereon, a copy of which I have. As to the 22 fm. level, we reported as follows:—"The workmen are now driving north, where the lode is large, composed of flookan, prian, quartz, mundic, and some spots of copper and lead; the backs of this lode are still stoping for lead, and yielding a small amount of

lead." The report presented to the meeting says, yielding 15 tons of lead per fathom. And as to the new or middle lode, which was reported by us to have been operated on to the extent of 30 fms., 28 fms. of which is productive ground, yielding, at different places, from 1½ to 2 tons of ore per fm., the report, as presented to the meeting, says—"This lode last been operated on to the extent of 39 fms., 28 fms. of which is productive ground, yielding 1½ to 2 tons of ore per fm." There is also a little difference in the latter part of the reports. Our report reads thus:—"Judging from all the appearances connected with this mine, we are unanimously of opinion that any large profits cannot be anticipated without driving to the northward, and at lower levels, where there is the greatest probability that a very large amount of lead will be found." The report, as presented to the meeting, says—"Judging from the general appearance of the mine, and carefully weighing all circumstances connected with it, we are unanimously of opinion that by driving northward, and at deeper levels, there is the greatest probability that a large amount of lead will be raised, and very considerable profits realised."

On the above I shall make ne remarks, but leave it with Capt. Dunstan, who is also alluded to by "Fair Play," to act as he may feel disposed in this affair, who is, doubtless, well able to answer for himself; and as to "Fair Play," he may draw from it what inference he may think proper.—WILLIAM BISHOP: JAN. 15.

#### PENTIRE GLAZE AND PENTIRE UNITED MINES.

SIR.—Among the "Notices to Correspondents," in your Journal of last Saturday, I observe you insert some grave and serious charges made by a person, anonymously styling himself "Fair-Play," St. Minver, against the present adventurers in these mines; and though you considerately give me the opportunity of disproving his statements, in doing so you yourself seem to question whether the reports read at the meeting were Capt. Dunstant's or not, although "put forth as such!" and, "if not," you say "you have no doubt that gentleman would disown all connection with them!" It does not say much for the credit of the mining world when you, who have had so long an

opportunity of disproving his statements, in doing so you yoursen seem to question whether the reports read at the meeting were Capt. Dunstan's or not, although "put forth as such!" and, "if not," you say "you have no doubt that gentleman would disown all connection with them!" It does not say much for the credit of the mining world when you, who have had so long an acquaintance with it, can suppose for one moment that a set, or clique, should meet together as a constituted body, and impudently and unblushingly send for publication reports which they not only believe to be untrue, but which are positive forgeries! . Whatever may have been so done by others, has not in this, nor in any instance, been done by us; and I thank you for inserting the statements of your correspondent, in order "that the truth may be elicited."

First, in reference to the genuinences of the reports themselves: I have already exhibited at your office rule ongoinsts, signed by the respective parties who were employed to inspect the mines. They were ordered for the satisfaction of the adventurers, and those interested in the mines, as well as to confirm the reports and the efficiency of the past workings of their capitain, and "not got up," as your correspondent slanderously suggests, "for the purpose of enticing capitalists to take shares, and thus ease the shoulders of the present adventurers, who are few in number!" "Fair-Play" may often have "got up" "oports for such purposes himself; but we would not attempt to ease our own shoulders by such base and dishonourable means. The reports in the handwriting of Messrs, Rowlandson and Dunstan, from which the printer set up the type (a rough proof of which I forwarded to you, and from which, I regret to find, as I have been since informed by Gapt. Dunstan, in the second paragraph, on the new or middle lode, the compositor has omitted, after "yielding," the words—"in different places," &c.), are in my possession, and may be seen and compared with those published by "Fais-Play." or any other pa

#### SOUTH MARIA MINE.

Sir.—Observing in your Journal a letter last week, respecting South Maris Mine, from Mr. J. Seccombe, of Tavistock, I have to state that he was purser Mine, from Mr. J. Seccombe, of Tavistock, I have to state that he was purser of the late company, who have not worked the mine for the last 15 months; consequently, it has become forfeited to me, as the proprietor of the land: there remains six years of the old lease, and I have granted a fresh one to a new company, who are about to prosecute the mine with vigour. I deem it right to give this information to the public, that they may not be deceived, in purchasing that which is of no value.

WILLIAM STEPHENS,
Latchley, Jan. 13.

Lord of South Maria Mine.

Latchley, Jan. 13.

TINCROFT MINE. TINCKUFF BIINE.

SIR,—On referring to the valuable list in yoar last Journal, by W. H. Cuell Esq., I find that 38,972l, worth of ore has been sold during the past year from the above mine, whilst the only dividend has been one of 3150l. It is true that upwards of 9000l, worth was sold since that dividend was declared; but even then, the expenses appear enormously out of proportion to the dividends wen then, the expenses appear enormously out of proportion to the dividen eccived. Whether this arises from the want of more frequent general mengs, and, consequently, more control by the shareholders, as in the case ost-book mines, requires to be explained.

A SHAREHOLDER.

#### THE MINING SHARE LIST.

THE MINING SHARE LIST.

Sir.—I fully agree with your correspondent, "Mentor," in last week's Journal, as to the difficulty of referring to your Share List, as at present arranged. I have now to search over four districts for mines I am interested in; but my greatest difficulty is to find out other mines, which may be referred to in your Mining correspondence as presenting favourable indications in the workings, and which naturally draws attention to the prices at which they are quoted, but, without a thorough knowledge of the districts, cannot now be found, except by referring alphabetically to each list, until the name is met with. If arranged as suggested—viz.: "Mines in Cornwall, Mines in Devon," &c., it would be much simpler, and, I think, give your readers (what you intended they should have) greater facility for reference.

\*\*Wells, Jan. 13.\*\* Wells, Jan. 13.

Wells, Jan. 13.

Six,—I am a constant subscriber to your Journal, and solely on account of the prices of mining shares, to which I make constant reference, being a considerable investor in that description of property. The alteration in the last two Numbers has, however, totally destroyed all facility of reference in that respect, and without any corresponding advantage. The district was sufficiently indicated for all common purposes in the old plan. In many cases it is the last thing considered—the price being the first. Now there are a dozen different headings to look through before one can ascertain the price of shares. I hold shares in nine or ten mines, in none of which have I ever felt any interest to know the exact situation of. To look in the Journal for the prices of all these is, under the new system, a work of considerable intricacy and of all these is, under the new system, a work of considerable intricacy and labour; and I feel confidend that to the public the alteration must be productive of as much trouble and annoyance as to

SIMPLEX.

[Some remarks on these communications will be found in another column.]

WHEAL GILL (silver-lead and copper) is situate in the parishes of St. Cleer and St. Ives, in the neighbourhood of Trelawny, Wheal Mary Ann, and Trehane, and it is asserted with similar rich lodes of silver-lead running through a portion of the sett. The description given of the capabilities of the sett is most encouraging, and no large amount of capital, it is estimated, is needed to make the mine a paying one. The cessation of the former operations was owing to the want of steam-power—an event not likely to occur under the present adventurers, who have purelessed a 70 indeed without steam source of the steam of the steam of the steam source of the steam of th make the mine a paying one. The cessation of the former operations was owing to the want of steam-power—an event not likely to occur under the present adventurers, who have purchased a 70-inch cylinder steam-engine, of sufficient power to carry down the mine 200 fms. The full advantages resulting from the previous 10 years' workings, and an outlay of 15,000t, have been secured by the present company for 1500t, with a reservation to the owners of the sett of 536 shares, according to the conditions of the cost-book. The reports of Mr. Evan Hopkins and Capt. Joseph Kemp, who were expressly commissioned to inspect the mine, are fully confirmatory of the favourable opinions given relative to the property. The general character of the formation, says Mr. Evan Hopkins, is a variegated clay-slate, traversed by numerous light blue clay vems, and presenting every indication in structure, configuration of the valley, and the gossan for making large bunches of lead ore in depth, but more especially southward. This is, as regards lead, a most important sett, and deserving immediate attention, and although it predominates in lead and zinc, yet large masses of copper ore may be found westward, within the limits of the sett. Messrs. Seymour, Spargo, and Taylor, who had gone over the sett, in a letter to the shareholders, say—"We earnestly recommend you to fork the mine immediately, you will then have a profitable mine;" and Messrs. Richards and Kemp state expressly that there are three lodes running through the sett, one east and west, or copper lode, and two north and south course, or lead lodes, adding—"From what we have heard and seen of the old mine on lisi lode, together with the two lead lodes, and the work already done—viz.: shafts aunk, levels driven, &c., we consider Wheal Gill a fine speculation." It is, we see, divided into 1536 shares, a great portion of which, it is stated, have been already taken up by respectable parties.

### Mining Correspondence.

BRITISH MINES.

ALFRED CONSOLS.—We expect in the early part of next week to resume the sinking of Field's engine-shaft under the 90 fm, level, and at the same time commence the driving of the 80 fm, level, east of said shaft. The lode in the 70 fm. level cast is from 8 to 10 ft. wide, worth for copper ore about 500, per fm. No. 2 winze is sunk under the 70 fm. level near 7 fm.s.; but cannot be sunk deeper until the 80 fm. level is extended further east to drain the water. The lode in this winze is about 4 ft. wide, nearly all solid ore, worth from 60 to 600, per fm. The lode in the winze sinking under the 60 fm. level, west of Wyld's shaft, is from 10 to 12 ft. wide, worth quite 1500, per fathom. Wyld's shaft, by the end of the present working month, will be completed to the 60 fm. level, well will be a great advantage to the mine for ventilation and drainage. In driving south in the 10 fm. level, east of Wyld's shaft, we have not yet intersected the Oak Tree lode, but expect to do so in about one month from this time. Our north lode in the additivel, west of engine-shaft, has much improved in appearance within the last fornight; it is nearly if ft. wide, and composed of spar, mundic, and capels, mixed with copper ore. Our tribute pitched are just the same as for the last two months past. We are sorry to inform the adventurers of these mines that on Wednesday, the 8th inst, the boiler at the steam-whim exploded, destroying nearly all the boiler, and killing one man; the boiler was quite new, not having been in use more than about five weeks. The cause of this misfortune is not yet really known.

BARRISTOWN.—Since the meeting of the 4th December we have driven

was quite new, not having been in use more than about five weeks. The cause of this misfortune is not yet really known.

BARRISTOWN.—Since the meeting of the 4th December we have driven 8 fms. in the cross-cut south, through a very kindly channel of ground for mineral, and have had some cheering indications, such as a vein of lead, prian, and spar, all of which has been reported heretofore; the ground at present is still of a promising character, though a little stifler for digiving than it has been, and even now the present price is only 24. Iss, per fathom, which may be considered moderate ground. The end cast has been driven about 1 if ms. on the course of the lode, and, owing to its unpromising character and irregularity, it has been considered judicious to suspend it, and the men have been put to drive west on the same lode; the same is at present small and worthless, and I would suggest for your consideration that this end be suspended for the present, and the men removed to drive in the direction of what is termed great slide west. The slide I refer to is almost at right angles with the old lode, and such a slide having made a good lode of lead between the old lode and black ground, bounded on, the east for about 3 fms. in length, I think it a fair and just speculation to cut through the foot wall of the old lode, and drive in the same direction as the slide made one between the old lode and black ground referred to; and it will prove if such is to be found in such a course; and to make sure of it being there or not, after driving a few fathoms west we can drive south, should it be heaved in that direction on the old lode. This to me seems an important point, and one which justifies a trial, and should such a slide be found in that direction as a continuation of the other, there is no doubt of its being found productive. It is a trial which can be accomplished in a short time, and comparatively at a trifling expense.

BEDFORD UNITED.—The lode in the 115 fm. level, east of engine-shaft,

which can be accomplished in a short time, and comparatively at a trifling expense.

BEDFORD UNITED.—The lode in the 115 fm. level, east of engine-shaft, is 2½ feet wide, composed of spar and mundic, with spots of ore in places; at the same level, east of Andrew's winze, the lode is 2½ ft. wide, and without alteration; ditto west, the lode is 3 ft. wide, producing a little saving work, but not rich. The lode in the 103 fm. level east is still worth 10 tons of ore per fm. In the 90 fm. level east, the lode is 2½ ft. wide, composed of spar, mundic, and ore, yielding some saving work; in Arscott's winze, in this level, the lode is 3 ft. wide, and will produce 10 tons of ore per fm. In the 80 fathom level, we are driving by the side of the lodes. The pitches remain much the same as for some time past.

same as for some time past.

BODMIN WHEAL MARY CONSOLS.—We have set the shaft to sink from the 10 to the 20 fm. level, in one stent, to 16 men, at 71. per fm. In the 10 fm. evel we have now three lodes intersected, each containing small branches of ore, and iones of one throughout; we have set to drive upon both ends of each lode, at an average vrice of 25s. per fm., and 2s. 6d. in 1. for ore saved. In the cross-cut north we have livien 2 fms., and expect to cut No. 1 lode next week. In Hoskins's plich, in the adit evel, as they get nearer the surface, the lode is not quite so rich for ore, but is larger and composed chiefly of a most beautiful gossan.

BORRINGDON PARK.—Since I last saw you, we have met with a cross-curse in the adit level disping east, and, in consequence of there being so much water

ourse in the adit level dipping east, and, in consequence of there being so much water oming out against us, which proves a considerable drawback to us, we have breasted up the end, and resumed the sinking of the shaft and cutting the plat this morning, and hall, if possible, get through with it by the time I mentioned. I like the appearance of his cross-course dipping towards the coombe.

as cross-course dipping rowards the coomoe,

CALSTOCK UNITED.—The tribute pitches at Wheal Goodluck are much
ne same as when last reported. The ends have been extended several fathoms both east
nd west in the 28 and 42 fm. levels, and are looking well. The engineers will comnence heaving in the steam stamping engine on Monday next. We are actively emgloyed on our southern lode, and shall make 2001. profit this month from this department.

CEFN BRUNO.—The sinking of the whim-shaft is suspended for the present, and preparations making for driving a 24 fm. level on the ore ground, through which the shaft has been sunk. The adit level west is at present in a small lode, with a little ore, and much water coming from the end; ditto east, is in a lode 20 in, wide, predicing good stones of ore. The lode is not yet cut in the deep adit level, but some small strings of spar have been met with, with spots of lead.

CWM ERFIN.—The sinking of the engine—shaft is recommenced. The 30 fm. level east is still yielding 15 cwts. of ore per fm.; the rise and stope over this level continue very good. The 20 fm. level east is still poor, but contains a little ore; the stope over this level is still orey, with a large lode.

EAST CROWNDALE.—I am happy to report to you the important discovery made in our 40 fm. level east; the lode is 5 ft. wide, having a leader of tin 14 in. wide on the south wall, producing full 60 per cent. of black tin, or 2½ tons of black tin per fm.; we have driven about 3 feet on its course, and up to the present time it holds good, and most productive in the bottom of the level. This looks well for our next level (the 50). No lode taken down in the 50 since my last. In the lode in the winze below the 28 there is no alteration to notice.

EAST DAREN.—A very good orey lode is coming in at the east end of Taylor's shaft, but enough has not yet been seen to calculate its produce. The 20 fathom level, east of Reed's shaft, is also in ore again; the same level, going back north-west is still in good ore. The winze below the 10 fm. level is yielding 2 tons of silver-lead ore per fm.; the 10 fm. level east is yielding about 8 cwts. per fm.; the last 2 fathoms without 15 cwts. per fm.

yielded 15 cwts. per fm.

EAST WHEAL GEORGE.—I mentioned in my last that we had put the men to cut in south in the present end of the 12 fm. level east of shaft. In doing this we find the main part of the lode is standing, which is about 4 ft. wide, composed of capel, spar, and occasionally good stones of ore; it is a strong champion lode, which promises to turn out better in depth than at this point. The stopes are producing about the same quantity of ore -viz., 164, worth per fm.; the ground is harder. In sinking the engineshaft, we have nearly drained all the water from the 12 fm. level east, which makes it rather difficult for sinking. I hope we shall get the shaft down to the 24 fm. level in about a formight, when we shall divide and case down the shaft, and commence driving a cross-cut, to intersect the lode immediately at that level. Our last parcel brought 122. 4s. per too, the amount being 2681. 15s. 2d. Our next sampling will be at Sopwell; we have commenced drawing ores to that quay. ed drawing ores to that quay.

EAST WHEAL JOSIAH.—There is but very little done in driving the adit do south this week, the ground in which being so very soft and troublesome; conse-tently the men are obliged to go back and new timber the level, to make it secure.

quently the men are obliged to go back and new timber the level, to make it secure.

EAST WHEAL LEISURE.—Taylor's shaft is down for a 10 fm. level; it continues in a very fine killas. The winze on the north lode is cleared 7 fms. below adit; the first 4 fms. will pay well for taking away in the west end. The cast end has been worked out. The adit west on Taylor's lode is 4 ft. wide, producing 1 ton of ore per fm.; in the same level cast the lode is 2 ft. wide, rich for jack, but with little ore. The 17 fm. level, cast and west, is in a promising lode.

EAST WHEAL RUSSELL.—We have completed the adit level to the engineering and clear the former of ft. further east. We have also resumed sinking.

EAST WHEAL RUSSELL.—We have completed the adit level to the engine-shaft, and cleared the former 6 ft. further east. We have also resumed sinking under the adit level; the lode produces the same quality gossan, prian, peach, quartz, and capels, and every indication of large quantities of copper ore below. We have not sunk many feet in Murchison's shaft this last week, having been overflowed with water; the lode here is also producing greens of copper, and it is my firm opinion that when we get under the gossan, we shall have an immense quantity of ore. We are getting on with our engine-house as fast as we possibly can, but the weather being so much against us, we shall not be able to set our engine to work so soon as we expected, although probably it will be ready in three weeks or a month.

ESGAIR LLEE.—We have taken down the lode in the deep adit, east of Morgan's wings; it is 3 ft, wide, with a strong mixture of ore throughout, but not so non-

ENGARK LLEE.—We have taken town the ode in the deep ain, east of Morgan's wince; it is 3 ft. wide, with a strong mixture of ore throughout, but not so productive as might have been anticipated from its previous very promising appearance. The stratum at present is softer than usual, and of a very white colour. The idee in the 12 fm, level, east of Morgan's wince, is 3 ft. wide, looking kindly, and will, on an average yield from 6 to 8 cwts, of ore per fm. The general appearance of the stopes is much as usual, yielding on an average about ½ ton of ore per fm.

sual, yielding on an average about \( \frac{1}{2} \) ton of ore per m.

HEIGNSTON DOWN CONSOLS.—Owing to an increase of water in the innes sinking below the 45 fm. level, attributable to the almost incessant rain, we pursoes sinking on the north side of the lode until we reach a 55 fm. level, keeping, however, the north wall of the lode; and, so far as opened on, I am glad to say it looks excludingly well. The lode in the 35 fm. level east produces occasionally stones of copper re; the rise in the back of this level progresses satisfactorily; the cross-cut south is ther hard; it is, nevertheless, being spotted with fine yellow copper ore. The other oints of operation are without important alteration.

points of operation are without important alteration.

HENNOCK.—We are fixing the rose lift, &c.; there is, therefore, nothing new that I can report since my last. We are now in the lode about 12 ft., without any material alteration; if any difference, the lode is a little softer. If we can have the castings up to-morrow, we shall commence sinking on Tuesday.

KIRKCUDBRIGHTSHIRE.—The lode in the 74 end, west of Stewart's shaft, is 3 ft. wide, making about 5 cwts. of lead to the fn. We have holed the 62 west from Keith's, to the 62 west of Gilpin's, this week. The 62 west of Gilpin's has a lode 4ft. wide, yielding 5 cwts. of lead to the fathom. The lode in the 50 end west is 2 ft. wide, with stones of ore. The lode in the 40 end west is 4 ft. wide, with good stones of ore. We have shipped a cargo of lead in the Mary for the December gain.

wide, with stones of ore. The lode in the 40 end west is 4 ft. wide, with good stones of ore. We have shipped a cargo of lead in the Mary for the December gain.

LAMHEROOE WHEAL MARIA.—The operations at this mine are progressing to my satisfaction. The 50 fm. level, east from engine-shaft, is driving by six men; the lode is 2 ft. wide; the north part carriers a leader of copper ore, if. wide, fair in quality; the south part is capel, spotted with copper ore, and still produces a fair quantity of in. We have four men stoping in the back of the 60, east of engine-shaft, and intend to put on two men more to-morrow; the lode is 2 ft. wide, 6 per cent. black tin, and also produces a portion of copper ore. It is feasible to run a rise from the back of these stopes to the 50 fm. level; by so doing we shall raise a fair quantity of both tin and copper ore, and twill be available also for air, and when the water is in at the bottom level the men will be able to continue their labours some hours longer. The ends in the 65 fm, level, both cast and west, are suspended for awhile. We intend to put two men to drive south in the 50 fm. level, to cut the lode west of the cross-course (the expense will be trifling), as it may be productive west of the cross-course, as it is to the east. We cannot say anything respecting the lode in Tabb's shaft, as it has not been cut through for some fins; it is intended to be done as soon as the men have completed their contract—that will be about the end of this month. Jesse's shaft, on B lode, is holed to the adit, and the new whim is in course of building, and will be completed by the end of this week; this shaft is sunk about 7 fms. below the adit above mentioned; the lode is about 5 ft. wide, composed of kindly mundied, and gossan, spotted with copper ore, under which large deposits of copper ore may be fairly expected; I trust we shall recommence sinking this shaft again about next Monday. As there is about 70 tons of tin work at surface, I

S. granthe wo

advise putting on a stamps of 4 heads immediately, as I am fully satisfied that the water raised by the engine is sufficient to work it, and the expense will be trifling. It is useless to raise ore unless it is put into the market. You may shertly expect a box of ore from the 50 fm. level end.

raised by the engine is sufficient to work it, and the expense will obe training. It is used to raise ore unless it is put into the market. You may sherily expect a box of ore from the 50 fm. level end.

LEWIS.—Our sump-whim shaft is completed to the 90 fm. level. We shall now commence driving south to cut the south lode, Cock's lode, and the new lode; at the same time we shall drive east on the north lode. I mentioned in my last report having cut the south lode in the 80 fm. level, south from copper ore shaft; we are continuing this cross-cut south, to intersect the other lodes. The north lode in the 80 fm. level, east of copper ore shaft; is 2 feet wide, composed of white mundie, brent, and a small quantity of tin. The new lode in the 70 fm. level, east from the shaft, is 4 in. wide, producing stones of fin; the new lode in same level, west from copper ore shaft, is 9 inches wide, worth 3t, per fathom In the 60 fm. level, east from copper ore shaft, there is no alteration since last reported. Cock's lode, in the 50 fm. level, west from sump shaft, is 1 fn. wide, worth 4t. per fm.; ditto, west of copper ore shaft, the root is 1 foot wide, producing stones of tin; the south lode, east of copper ore shaft, in same level, is 10 in. 1 fm. wide, worth 2t. per fm.; ditto, west of copper ore shaft, in same level, is 10 in. wide, worth 2t. per fm.; ditto, east of this hard, in same level, is 10 in. wide, worth 3t. per fm.; ditto, east of the shaft, the lode is 1 in. wife, producing a small quantity of tin. The new lode in the 30 fm. level, west of copper ore shaft, is 19 in. wide, worth 3t. per fm.; ditto, east of the shaft, the lode is 6 in. wife, producing a 50 in. wide, worth 3t. per fm.; ditto east, the lode is 6 in. wite, unproductive; Cock's lode in this level, east of copper ore shaft, is 9 inches wide, worth 4t. per fathom.

LLWYNMALEES.—In the western winze, sinking under the 8 fm. level, the lode has very much improved; this winze will now yield 30 cwts, of ore per fm. In the cross-cut, which I have had driv

MERLLYN.—The mine is looking well, and much more ore will be raised MERLLYN.—The mine is looking well, and much more ore will be raised during this month than was calculated on. Some of the pitches are much improved; from one pitch upwards of 15 tons of ore have been broken this week; the other pitches are also breaking good ore. We shall commence bringing it to surface as soon as the whim is got up, and immediately prepare it for sale.

NANTEOS.—The 40 fm. level, at Bluchgwin, east of Taylor's shaft, on the south lode, is much improved in the last week; it is now 5 feet wide, yielding more than 15 cwts. of lead ore per fm. The 30 east is yielding a ton per fm. The 20 cast is poor. The stopes generally produce from 10 to 15 cwts. of ore per fathom.

NORTH BULLER.—Capt. J. Miners reports the operations to have been niefly confined to the surface and physics, gathing the north part of the surface and physics.

The stopes generally produce from 10 to 15 cwts. of ore per fathom.

NORTH BULLER.—Capt. J. Miners reports the operations to have been chiefly confined to the surface and pitwork, getting the engine in course of working, on or before the 15th inst. The men have been pushing on with all possible speed, but have been push to great inconvenience in erecting the engine in course of working, on or before the 15th inst. The men have been pushing on with all possible speed, but have been push to great inconvenience in erecting the engine, on the course of heavy rains and gales of wind. Although we have had to encounter much rough weather in erecting the machinery, we have had no accident of any kind. The sumpmen in Louisa engine-shaft have been busily engaged in putting down the main rods of the engine, cutting ground for the cistent, catches, fixing pitwork, &c., which we hope to be complete for the engine to work at the time above stated. We have again commenced driving the adit level east, on King's lote, which we find to be requisite for drainage, as there are large streams of water issuing from the cross-course and other parts of the level. This convinces us the opening of the adit level is of great benefit to the mine. We have discharged several of our surface labourers, and when we get the engine to work in both shafts our attention will still be directed to reducing the surface cost to such an extent as will be compatible with the efficient working of the mine.

NORTH WHEAL ROBERT.—Report of the work done since our commencement:—Autrichisor's engine-shaft is sunk 5 fans. The men are timbering it up, and it will be finished to-day; the water is so powerful that we cannot sink deeper. The men will be employed to-morrow in bringing up the open cutting; and when that is completed, which I think will be in a fortuight, or three weeks, perhaps we shall be able to sink 4 or 5 fins. deeper. In Halker's shaft nothing has been done since my last into shaft of fins. The province of the men leaving their contract; and we

OLD POLBERRO.—There is a good lode in a pitch in the ground above the 27 fm. level, and it has very much improved within the last few days.

PEN-Y-BANK AND ERGLODD UNITED.—The lode in the adit level, driving east from the cross-cut, is still disordered and poor. The shaft at Pen-y-bank is cleared up to the depth of 27 fms, where there are some very large workings, with a level driven eastward, but we have not yet been able to get in it.

SOUTH JOSIAH — A fine harmh of company core here here.

vel driven eastward, but we have not yet been able to get in it.
SOUTH JOSIAH.—A fine branch of copper ore has been discovered in driving the adit level west, and is kindly'to continue

SOUTH WHEAL TRELAWNY .- We still continue to drive south on the branch we cut in the eastern cross-cut with six men; they have also driven their last stent, and taken 3 fms. stent at the old price, 60s. per fm.; the lode is small, but very regular, and its underlay is also very regular; it is composed of killas, flookan, spar, and mundic. The ground is much the same as when last mentioned—pretty favourable; the water is gradually increasing.

TAMAR SILVER-LEAD .- In the 205 end no lode has been taken down TAMAR SILVER-LEAD.—In the 205 end no lode has been taken down since last report. In the 190 end the lode is 1 ft. wide, composed of mundle, capel, and ore, saving work. The 172 end is suspended, and the men put to rise against the winze, which is sinking in the bottom of the 160. In the 160 end, driving south from the engineshaft, the lode is 18 in. wide, producing work of a promising description. In the 145 end the lode is 2 ft. wide, rich work—3 tons 6 cwts. 2 qrs. of ore were risen from this end last month, worth 807. In the 160 end, driving south from Spurgin's shaft, the lode is 2 ft. wide, composed of capel, black blende, and ore—work-of fair quality; in the north end, at same level, the lode is 2 ft. wide, composed of capel, can, and ore, good saving work; we hope to hole this end with the 160 south by the end of this week, when we shall have a communication at the 160 fm. level from Spurgin's shaft to the engine-shaft. At north mine, in the 90 fm. level, we are still driving east. In the 80 fm. level, driving north, the lode is 1 ft. wide, composed of capel, fluor-saper, and over, rich work. In the 70 fm. level the lode is 2 feet wide, yielding work of a very promising character.

TINCROFT.—Highburrow tin lode, in the engine-shaft sinking under the

level the lode is 3 ft. wide, interspersed with over: in the winze sinking in the bottom of this level the lode is 2 feet wide, yielding work of a very promising character.

TINCROPT.—Highburrow tin lode, in the engine-shaft sinking under the 152 fm. level, eits 16t. wide, worth 15t. per fm. In the 152 fm. level, driving east of engine-shaft, the lode is 6 ft. wide, worth 16t. per fm. In the 142 fm. level, east of middle engine-shaft, the lode is 5 ft. wide, worth 18t. per fm. In the 142 fm. level, east of middle engine-shaft, the lode is 5 ft. wide, worth 18t. per fm. In the winze sinking under this level the lode is 5 ft. wide, worth 15t. per fm. In the winze sinking under the 120 fm. level (in advance of the 132 end about 6 fathoms), the lode is 5 ft. wide, worth 12t. per fm.

Chapple's lode, in the 120 fm. level, west of engine-shaft, is 4 ft. wide, worth 12t. per fm. for the and copper. In the winze sinking under the 100, west of Downright shaft, the lode is 5 ft. wide, worth 16t. per fm. for copper. On Grout's lode, in the 90 fm. level west the lode is worth 18t. per fm. for copper. On Grout's lode, in the 80 and 70 fm. level west the lode is worth 18t. per fm. for copper. On Grout's lode, in the 80 and 70 fm. level west the lode is worth 18t. per fm. for copper. In the 110 west the lode is 5 ft. wide, worth 12t. per fm. for copper. In the 100 fm. level, east of Willoughby's, the lode is 3 ft. wide, unproductive, being in disordered ground; in the 100, west of engine-shaft, the lode is 4 ft. wide, producing stones of grey ore: in the 110 west the lode is 5 ft. wide, worth 8t. per fm. for copper. In the 100 fm. level, east of Willoughby's, the lode is 3 ft. wide, unproductive, being in disordered ground; in the 100, west of engine-shaft, the lode is 4 ft. wide, worth 14t. per fm. for copper. In the 90 east the lode is 3 ft. wide, worth 8t. per fm. East Pool lode, in Palmer's shaft, sinking under the 100 fm. level, east of Willoughby's, the lode is 3 ft. wide, worth 8t. per fm. East Pool lode, in Palmer's s

TRELEIGH CONSOLS.—Christoe Lode: In the 100 fathom level, west of Garden's, the lode is 15 in. wide, with stones of ore. In the 100 fathom level, west of ditto, the lode is 18 in. wide, worth 8t, per fm.; in the stopes above the 90 fm. level the lode is 2 ft. wide, worth 12t. per fm. In the 30 fm. level, west of cross-cut, on the north part, the lode is 15 in. wide, with stones of ore. In the 70 fathom level, west of Garden's, the lode is 18 in. wide, with good stones of ore. —Parent Lode: At Parent engine-shaft, below the 52 fm. level, we are sinking in the country. In the 59 fm. level, east of ditto, the lode is 3 ft. wide, but little ore. In the 30 fm. level, east of ditto, the lode is not yet clear of the cross-course.—Middle Lode: In the 40 fm. level, east of cross-course, the lode is 1 ft. wide, with stones of ore; in the rise above the 40 fm. level, west of cross-cut, the lode is 1 in these wide, with good stones of ore. Burgess's shaft, from the surface, is sinking in the country for the middle lode,

ainking in the country for the middle lode,

TREGORDEN.—The following report on the mine has been made by Capt.

S. R. Rickard:—The new engine-shart is sunk about 6 ft. below the 30 fm. level; the ground in the bottom is easier then it has been for the last several feet; and as the present bottem of the shaft, which is being sunk perpendicular, is only 6 ft. from the lode, and which is underlying towards the shaft, it will be intersected about 3 fms. deeper; the lode in the 30 fm. level is large and very promising, and in places contains some rich work for sliver-lead ore, which will pay well for taking away. I should say, so far as the present drivage is extended in this level, that the lode is very much improved in its general appearance, compared with the 20 fm. level, although not containing a great deal more lead—it being of a more settled character; the ends in the 20 are not at present driving, but the backs are being stoped on the most productive ground. On account of the workings of this mine having been confined for nearly two years to the depth of the 20 fm. level, for want of an engine to sink deeper, the returns have been comparatively small of late to what they would have been, had efficient machinery been comparatively amall of late to what they would have been, but defined machinery been comparatively amall of late to what they would have been deaders the returns have been exceed sooner; but which is now done, consisting of a 36-in. cylinder steam-engine, of sufficient packers.

that the 30 fm. level, both nerth and south, be driven with all possible speed, and the sinking of the engine-shaft forced to reach the 40, and there, of course, commence driving. From the circumstance of a larger engine not being sooner erected, as before referred to, returns after a short time can only, or nearly so, be expected from the backs of one level (the 30), from which you will undoubtedly have great assistance in the scapence of getting down, to the 40, at which point, from the change taking place in the lode going down, I fully expect you will meet with more general paying ground.

TREVILLE.—The new lift of pumps is down, and the water forked. We began the cross-cut to the lode yesterday, and hope to intersect it this week. I cannot speak too highly of the water-wheel on the tension principle, erected by Messrs. Niclois, Williams, and Co.; it is doing its work admirably, and although we drove it from 12 to 14 strokes per minute, 7-ft. stroke, for nearly a fortnight previous to putting in the larger lift of pumps, it has not had the slightest effect on it; I am convinced no wheel on the old principle of wood arms could have stood the severe work it has had.

TYWARNHAYLE.—The 64 fm. level east, at South Towan, is much improved, and is now producing 2½ to 3 tons of ore per fm. The 80, east of Bennett's shaft, is also improved, producing 1 to 1½ ton per fm.; the 89, east of James's shaft, is not so good, but still produces 2 tons per fathom. The other levels are quite as good as last reported, especially the 90 east, which still yields 10 tons per fm., and the 80 west, which yields 4 to 4½ tons per fm.

yields 4 to 4½ tons per fm.

— The 100 fathom level east is approaching the run of ore ground seen in the 90 fm. level; the 100 fm. level west is composed of spar, spotted with ore. The 90 fm. level east is not quite so large as it was, and now producing 6 tons of good ore per fm. The sinking of Bennett's shaft will recommence next week. The 80 west is producing 4 tons of ore per fm.; the 80 east 1 ton per fm. The solar sate of James's shaft, is producing 1 ton per fm. The lead lode has been cut in Wheal Sparrow; it is 1 ft. wide, containing a little lead. The lode in the 40 fm. level, on Stacey's lode, is 2½ ft. wide, producing 1 to 1½ ton of ore per fmf.

ber int. The lode in the 40 fm. level, on Stacey's lode, is 2½ ft. wide, producing I to 1½ ton of ore per fm.

UNITED MINES (TAVISTOCK).—The lode in the 45 fm. level, in the adjoining sett, is stated to be worth upwards of 130½ per fathom, and as this discovery, or improvement, has taken place very near to the boundary of our sett, and the lode runs through our mine for nearly a mile, and can be cut 60 fms. deeper than at present seen (where this discovery is made), at a very small outlay, I deem it right to give to you the earliest information on the subject.

WARLEGGAN CONSOLS.—During the past month, we have cleared the addit level east to the trial shaft, on what has hitherto been called the south lode; but on communicating with this shaft, we find that the lode driven on is 2 fathoms north of the shaft; consequently, we are led to believe that there are other lodes still to the south; the lode opened on is regular and well-defined throughout the whole distance driven, and produces good saving work; but the ground in the back is almost all taken away by the ancients; in the end we have come to close ground, which we intend to drive as soon as the bottom stope is brought into the proper level; these stopes will produce good tin stuff. The north cross-cut is driven 4 fms. 5 ft. 6 in., making altogether 10 fms. from Mitchell's shaft. We hope before the end of another mouth to have reached the new lode. We consider our position favourable, and the ground laid open of the most encouraging character; Mr. Square, purser to the mine, has expressed a very favourable oppinon of its capabilities; in a private letter, he says—"the mine is opening up very well, and I do not hesitate to give it as my opinion, that there are very few more promising undertakings in the county than this mine."

WEST PAR CONSOLS.—In Sarah's shaft the ground continues much the same, and we are sinking at about the same rate as last reported. At Floyd's shaft, in the norther part of the sett, the ground is highly fevourable.

same, and we are sinking at about the same rate as last reported. At Floyd's shaft, in the northern part of the sett, the ground is highly favourable; we are now cross-cutting north and south to intersect the Brown and Little Griffin lodes in the 12 fm. level; we expect soon to open good ore ground here,

WEST WHEAL JEWEL .- There has been no lode taken down in any of he levels on Wheal Jewel lode in the past week, or on Tolearne tin lode. The stopes in the back of the 12 fm. level, west of Pryor's winze, on Tolearne tin lode, is worth 161, per in.; the stopes in the bottom of the same level, east of Tregoning's shaft, on same lode worth 284, per fm; the stopes in the bottom of the same level, west of Tregoning's rinze, on same lode, is worth 204, per fm.; these stones are working on tribute.

winze, on same lode, is worth 20t, per fm.; these stones are working on tribute.

WEST WHEAL TOWAN.—In sinking Caroline's shaft, the branches of tin
still contiaue. The working of other parts of the mine is going on very favourably, and
the concern will soon be in a state to return copper as well as tin ores for sale.

— Jan. 14.—A lode has just been cut in Caroline's shaft, underlaying north about 2 ftin a fm.; it could be seen into 18 in., and is composed of tin, copper, mundic, and sparand from its appearance is judged to be a strong, kindly lode, and to be the copper lode
wrought in the eastern part of Wheal Tye, where the former parties raised large quantities
of ore; previous to cutting this lode some good branches of tin were passed through,
varying in size from 1 to 6 inches. The levels in other places have been driven by the
side of the lodes during the month—there is no alteration in them to report.

WHEAL ADAMS — The quartzose lode, cut through in the 72 fm. level is

WHEAL ADAMS.—The quartzose lode cut through in the 72 fm. level is 15 ft. wide, letting down large quantities of water; the lode is orey throughout, but very hard. We are now driving south on the eastern part of the lode, which is more orey, and a stronger looking lode than was seen in the 60, at the same distance from the engine-shaft; it is singular that the large quantity of water issuing from the lode does not decrease. It is evident that a very large and productive lode is before us, but I regret that we cannot make greater progress; we hope, however, to pierce the body of ore in the course of a week or nine days, so far as to let down the water from the 60, where the workings have been suspended during the last week; the men have been taking away an arch of ground left in the back near the south boundary, producing about 5 tons of ore per fm. The ore in the pitch worked at 8s. in It is nearly exhausted, but it is replaced by grey and black copper; that she will turn out will be proved in another week. We have set to rise from the 60 in the black ground, where there is ore of good quality. We purpose to rise from the 60 in the black ground, where there is ore of good quality. We purpose to rise from the 50 to the 40 in the same course, and we believe we shall lay open a good piece of orey ground, to be reduced by the stamps at a great profit. The stopes in the 40, north of the old engine shaft, now in full and effectual operation, are considerably improved, and the lead is more solid and of better quality at the extreme workings north. The cross-cuts in the 28 and 40 will, we think, reach the lode at both points in a fortnight from this time, when we hope further discoveries of importance will be made. The botler is fixed, the stack nearly raised, and the engine erected for the stamps. We have set the stamps work to competent capenters, and have employed additional smiths to work, with the greatest expedition.

WHEAL ARTHUR (CalaSTOCK)—I have set a pitch on tribute in the back of the deep adit level, west

pay all cost to make the ores marketable; and hope to set several more in a tew days, after clearing the cross-course.

WHEAL BAWDEN.—Since my last advice the lode in the adit level has undergone no very important change—being, on an average, about 15 m. wide, containing spar, mundic, carbonate of iron, fookan, and killas, with stones and spots of lead and silver ore in places, and is in its general character exceedingly promising; this level is at present suspended, and we are now rising about 2 fms. behind the end, for whim-shaft for ventilation end discharge of stuff. This work we shall hasten on with all speed, and then push forward the adit level with as little delay as possible.

all speed, and then push forward the adit level with as little delay as possible.

WHEAL CREBOR.—The cross-course cut in the 54, or adit level, as reported in my last, is about 7 feet wide, underlaying west 18 in. to the fm., composed of quartz, gossan, white flookan, and prian, with stones of copper on its western wall; the underlie being west, accounts for its not having been seen in the deeper levels by the former company; it is the largest and strongest I have seen in the mine; and I shall be much disappointed, when the lodes are seen to the west of the same, if it does not produce good results. The lode in the winze sunking below the 40 fm. level, at Rundle's shaft, as well as the lode in the pitch above this level, is just as last reported. The lode in the 30 end, west of Gubbins's rise, is at present disordered.

WHEAL GENNYS.—The level north from the shaft, after passing through

WHEAL GENNIS.—The level north from the shaft, after passing through the kindly gossan for some way, has reached, and is now being driven on, a kindly and very productive lode towards Wheal Langmaid, and there is every prospect of its continuing WHEAL HARRIS.—There is nothing new to report on this week. The ode in the 25 fm. level west is much of the same size and character as it has been for the ast fortnight past, about 1 ft. wide, producing good atones of lead ore; likewise ground avourable for driving.

ourable for driving. WHEAL LANGFORD.—Since my last (Dec. 30), we have driven about 8 ft. WHEAL LANGFORD.—Since my last (Dec. 30), we have driven about 8 fteast on the new or south lode; it is about 10 in, wide, composed of flookan, felspar, and quartz, interspersed with mundic and copper, containing a little silver, but not rich at present. In the north adit level (which I mentioned in my last, that we had about four days' work to get away the attle, and then hoping we should be enabled to take down some of the silver lode, of richer quality than we have been breaking of late) we have cleared the most part of the attle, but have not taken down any of the lode since; in consequence of the great falls of rain, the surface water is coming down so much, that we cannot possibly take down the lode, to save it as we ought to do: the stopes in the back of this level are still producing good saving work for silver. We have, in addition to the quantity that I named in my last, about 9 ewts, of tolerable good quality, making together now at surface about 2 tons, which I hope in the course of 10 days or a fortnight will be prepared for market, and also what we shall break during the time. At Wheal Baring, on Callington Common, since my last, we have driven about 6 fms., and cut through a large capel lode, interspersed with mundie; and there is an immense quantity of water coming from the end at present, which indicates there is a lode not far ahead.

WHEAL LANGMAID.—The 15 fathom level, north of the shaft, is now in almost a course of mundic and spar—a kindly lode, which bids fair in depth. The next, or 25 fm., level will acon decide this.

WHEAL PROVIDENCE (SOUTH SYDENHAM, DEVON).—There is a com-

or 25 fm., level will soon decide this.

WHEAL PROVIDENCE (SOUTH SYDENHAM, DEVON).—There is a complete change in the strata in the adit end; the killas is changed from a blue to a beautiful white, and the lode is also changed, being now composed of gossan, soft spar, mundle, and prian, a very kindly lode indeed, and I expect, ere long, most favourable results. We have taken down a part of the lode, 3 fms. behind the footway (or whim-shaft), where we found a lode gone off south from the one the adit is driven on; it is I fr. wide, and still enlarging, composed of prian, flookan, and mundle. In cutting pitches, preparatory to fixing launders in the bottom of the level, we have discovered many branches, or feeders, leading towards the lode, which is a good indication of making abundance of ore in depth; in fact, the more I examine the lode, the better I like it. We are getting on as fast as possible with the engine-house and other buildings.

WHEAL SETON. The labels is a source of the lower of lower of the lower of the lower of the lower of lowe

WHEAL SETON.—The lode is improving in the 90 and 100 fm. levels, and Harvey's lode, in the 24, is full 3 ft. wide, and very kindly. The 44 has also got into a change of ground, and the lode is opening.

WHEAL TREFUSIS.—The lode in the 24 fm. level cross-cut has not yet

WHEAL IREPUSIS.—The lode in the 24 min. level cross-cut has not ye been intersected; and it is supposed it has changed its underlay. In sinking the shall below the 14 fathom level several branches have been met with. In the adit level east, cannter branch has taken off south, being 18 in. wide, and very good for tin, in a fin gossan. The main lode east is composed chiefly of gossan, with good stones of copper ore. From the stopes a fair quantity of the stuff is being broken. The lode in the winze is daily improving for copper ore, and underlying south.

WHEAL TREMAYNE .- At Painter's flat-rod shaft, on the south lode, the WHEAL TREMAYNE.—At Painter's flat-rod shaft, on the south lode, the shaftmen have commenced sinking for bearers and cistern, to fix a drawing lift in the 50 fm. level; the lode in the bottom of the said shaft is 15 in, wide, composed of flookan, mundle, and spar, with spots of ore; in the 50 fm. level east the lode is 2 ft. wide, composed of flookan, spar, and capels, with stones of ore; ditto west the lode is 1 ft. wide, chiefly spar and brint, mixed with good spots of ore, having a very kindly appearance. In the 40 fm. level west the lode is 1 in. wide, composed of flookan, mixed with ore—opening tribute ground; in the winze sinking under the same level, east of the shaft, the lode is 1 ft. wide, worth 5t. per fm. In the west whim-shaft on the same lode, sinking under the 30 fm. level, the lode is 10 in. wide, composed of flookan, mixed with spar and spots of ore; in the 30 fm. level west the lode is disordered and poor. We expect this end is near the great flookan, which level is suspended for the present; the mea are now engaged rising in the back of the same level; the lode is 10 in. wide, opening tribute ground. At Madron's shaft on the south lode, in the 70 fm. level west, the lode is 2 ft. wide, opening tribute ground. In the winne sinking under the 60 fm. level, west of the shaft, the lode is 2 ft. wide, worth 64 per fm.; in the 60 fm. level, west of the shaft, the lode is 6 in. level, west of the shaft, the lode is 6 in. wide, worth 44 per fm.; in the 60 fm. level, west the lode is 6 in. wide, worth 44 per fm.; in the 60 fm. level, worth 44 per fm.; in the eross-cut driving north of the engine lode, east of Williams's engine-land, we have interasceted the lode, which is 9 in. wide, producing good work for tin. In the 30 fm. level, west of Laurio's shaft, on the north lode, the lode is large and peor. At the middle whim-shaft on the same lode, in the 10 fm. level, driving west, the lode is large and unproductive; in the cross-cut driving north, in the adit level of the same lode, our turwork and tribute is suspended for the present, in consequence of surface water. In the Boundry engine-shaft, sinking under the 63 fm. level, the branches have been disordered by Boors of spar; they are now worth 304 per fm.; in the 63 fm. level, driving east of ditto, on the engine lode, the lode is 18 in. wide, worth 124 per fathom. In the winze sinking under the 63 fm. level, due the 63 fm. level, due to 10 in. wide, worth 125 per fm.; in the 53 fm. level, driving east of Allan's branch, the branch is worth 140 per fm.; in the 53 fm. level, driving east of Allan's branch, the branch is worth 140 per fm.; in the 53 fm. level, driving east of Allan's branch, the branch is worth 140 per fm.; in the 53 fm. level, driving east of Allan's branch, the branch is worth 140 per fm.; in the 53 fm. level, driving east of the boundary engine-shaft, on the engine lode, the lode is 18 in. wide, worth 147 per fathom. Our tribute department is looking much the same as it has for some time past.

WHEAL VINCENT.—The lode in our west end continues very regular in WHEAL VINCENT.—The lode in our west end continues very regular in size, which is about 4 ft. wide, very rich for tin, and the further we extend our end west the better the lode appears. We have driven this end 35 fms. west of the engine-shaft, and 32 fms. of it is gone through a good lode, averaging about 2½ ft. wide. We have also driven our end east 21 fms., through part of the same bunch of tin, which will make 53 fms. of a good course of tin, and still lengthening as we go west, but our greatest is still a-head, which is our greatecaunter lode, and is about 95 fms. further west of us. The streamers have gone over the back of this lode, and we have raised a large quantity of tin, so that the proprietors have realised a large amount of dividends, evidently from no other source than the back of this lode; judging from the present appearance, there is every reason to believe that the adventurers of Wheat Vincent Mine will share a large amount of profit after we get in the 20 fm. level. We are thinking at the end of this month to return 2 tons of good tin as a sample from our west end. Since this mine has presented so good an appearance in the 10 fm. level, all the ground for miles round us is taken up to work for mine setts, which are called after this mine.

#### FOREIGN MINES.

#### IMPERIAL BRAZILIAN MINING ASSOCIATION:-

IMPERIAL BRAZILIAN MINING ASSOCIATION:—

Bananal, Nov. 3.—I am glad to inform you that the milliar for the iron wheel has been finished, and the wheel was again put to work on the 29th ult. The 24 fm. level is again drained, but nothing has been done on the backs since the breakage; I hope, however, that during the next 10 days we shall be regularly at work on them. The milliar appears to be a sound and excellent job, and I have great hopes that we shall suffer no more delay and trouble from a similar accident. The water being in the bottom part of the mine during the past 10 days. I have scarcely anything of importance, with regard to the mine during the past 10 days. I have scarcely anything of importance, with regard to the mine during the past 10 days. I have scarcely anything of importance, with regard to the mine during the back of the 24 fm. level; from these two places, during the enauing 10 days, I hope we shall get something encouraging. Although other points of operation have been rather poor, as shown by the capital's report, which will also inform you that we have commenced driving north of Wray's shaft, at the addit level, on a vein possessing at present a very promising appearance; the ground is easy for driving, and we hope to make good progress; I have great hopes of discovering something in this direction, as there are extensive old workings about 100 fms. before us, which never would have been made by the natives without obtaining produce. All our machinery at present is in good working order; the surface works are progressing satisfactorily, and the establishment generally so orderly and well-conditioned as to be very satisfactory.

Gongo Seco.—I have pleasure in informing you that on Tuesday and Wednesday last, 29th and 30th ult., we got 15me work for the washing-house, from a small arreh of ground near the surface, which yielded 4 lbs. 5 ozs. 6 dwts.; I hope and think there are many similar to this which have'escaped the scrutiny of the former miners, and, through the plan now pursuing for

| Gold Report. | Lbs. 6 4 3 0 | | Nov. 1st to 12th ditto | 7 5 14 0-13 9 17 0 | Bananal—from Oct. 23d to 1st Nov. | 2 1 19 0 | Bananal—from Oct. 23d to 1st Nov. | 2 10 15 0 | Column Report | 2 10 15 0 | Colu 

NATIONAL BRAZILIAN MINING ASSOCIATION:-

NATIONAL BRAZILIAN MINING ASSOCIATION:—
Cuiaba, Nov. 6.—The continuation of stone, or floors, at Le Page's stopes is looking exceedingly well, and also speedy for breaking. We have now got 150 tons of stone in store, and a mountain of stopes before us, with a mine of great magnitude under, and of a very promising appearance. We have resumed driving at the centre of these stopes by two negroes, to leave a pillar of ground over, which will secure the mine for many years, as we may calculate that this mine will be worked to a great depth and length below our present place of working. Our operations at Hitchens's level are quite satisfactory beyond all doubt; the distance driven on the course of the lode is 4 fms. 2 ft., and the floors of stone have a far better appearance than any I can trace out above. Produce, from Oct. 27th to Nov. 6th, 3 mks. 4 ozs. 7 oits. 38 grs.

No report has been received from the Cocaes Mines.

LINARES MINES C. The 6-4 levels have been received.

LINARES MINES .- The following has been received from Mr. H. Thomas:

No report has been received from the Cocaes Mines.

LINARES MINES,—The following has been received from Mr. H. Thomas:

Linares, Jan. 4.—The pitch to which I referred in my report of the 28th Dec. as not set till the men had got their ore up, has been since reset to the same party of four men, at I real 9 marovidos per arroba—the men paying out of that ½ real per arroba for dressing, and all other costs of drawing, stores, &c. This is the lowest price at which we have ever yet set anything in Pozo Ancho, and is equal to 23s. per ton, and the pile of ore which has been raised by these men during December and part of November is the best, without exception, I, and I believe every other Englishman in the mine, have ever seen.

Annexed is the stock account. in addition to which our floors contain a large quantity of undressed ore: —Ore in stock at Linares, Dec. 28, 191 tons 10 cwts.; weighed in, Jan. 4, 36 tons 5 cwts. = 227 tons 15 cwts.; at Baylen, 2 tons 9 cwts.; at Swille, 78 tons 12 cwts.; at Malaga, 59 tons; on board ship, 43 tons 8 cwts.: total, 411 tons 4 cwts.

Pozo Ancho, Jan. 4, —Our 55 fin. level is driven east of 3t. Antonio winge 2½ fms.; in this the lode is large, with occasional stones of lead, but none to value; the same level, west of the winze, is driven about 3 fms.; in this, the lode is looking exceedingly promising, now worth from 2 to 3 tons per fm., with fair indications of improvement speedily. Wilson's shaft is sunk 3 fms. below the 45 fn. level; here we have a splendid lode, at present worth 6 tons per fm. Shaw's shaft is sunk 2 fms. below the 45; in this the lode is still large and promising, with a leader of lead, worth 1 ton per fm. The 45 fm. level, east of this shaft, is still nuproductive, though there are some little indications of improvement speedily. In the 30 fm. level east the lode is still large and promising, with a leader of lead, worth from 1 to 2 tons per fm. San Juan shaft is sunk to the 45, but the cross-cut has not yet reached it, consequently not yet communicated, but

#### ROYAL SANTIAGO MINING ASSOCIATION :-

ROYAL SANTIAGO MINING ASSOCIATION:—

Cobre, Dec. 8.—Perseverancia.—Thompson's shaft has been sunk to the 22 fm. level, and we have commenced to drive east and west from ditto. In the 22 fm. level, west from shaft, the lode is from 5 to 6 ft. wide, producing 8 tons of copper per fm.; in the 22 fm. level, east from ditto, the lode is from 2 to 3 ft. wide, producing 4 tons of copper per fm. In the winze sinking below the 19 fm. level, east from ditto, the lode is from 2 to 3 ft. wide, yielding 4 tons of copper per fm. In the 10 fm. level, driving west from Thompson's shaft, the lode is from 3 to 4 ft. wide, producing some good stones of copper. In the 10 fm. level, driving east from ditto, the lode is from 3 to 4 ft. wide, producing some good stones of ore. In the winze sinking below the adit level, east of Thompson's shaft, the lode is from 2 to 3 ft. wide, yielding 3 tons of copper ore per fm. In the stopes below the adit level the lode is from 2 to 3 ft. wide, producing 4 tons of copper per tm. San Jacquin.—Taylor's shaft has been sunk 2 fm.s. below the adit level, which we find-very troublesome for sinking, in consequence of so much water.

Ermilano.—We have extracted all the [copper cast and west of Goldsmid's shaft that will pay for taking away. We have suspended all operations at this part for the present. Our raising for the past month is about 120 tons; the expenditure for ditto, \$10,653.

#### THE WORTHING MINING COMPANY :-

Adelaide, Oct. 14.—Be pleased to receive a report of proceedings for September:—The water-wheel shaft is now 25 mm. 5 ft. 10 in. deep, and the cross-cut end west therefrom 22½ fms.; from the near part of the shaft we struck the flookan, or under part of the lode, described in our last, at 21 fms. below the level of the cross-cut, and at 25 fathoms, from the shaft, in the cross-cut, we set the same flookan, as we suppose. This supposition is strengthened by the position and bearing of the lode and flookan at A in plan No. 1; also at B, in section No. 2. There is a branch shown for the plans such home, but not reported to contain ore; we have examined the by amovering and blasting a hole or two; it is from 8 to 14 in. big, and for a distance of 5 or 6 mm. gives naive copper, and numerous good spots of ore. We have also near it another branch, not before spoken.

of, yielding native copper. We have discovered also a lode going north up the hill, as per plan No. 3, at C, with stones of green carbonate, which we now think, and which we hope, next month, to be able to positively assert as a canner to all our water-wheel flat lodes and branches; upon the whole, my desire is excited to speed down the shaft, am sorry 1 cannot concur in the plan of further perpendicular ainking, as I believe the lode is fully arrived at. Besides, my reason is already advanced, there is another: the cutting through new strata downwards may prove an inlet to water, which the flookan has so happily contrived to restrain. In cetting through the to do south, at the end of middle gally, we have the best stones of ore yet discovered here; we have paid for 2 ft. S in., but are not yet through. I fully concur in stopping our driving here until we have a more specific object, having sufficiently proved a regularity, good size, and cupreous character, for nearly 40 fms. in length, at 8 fms. beneath the lowest back, and (say) I fm. below the river's bed. The original specification of the engine erections are now complete, and the copies shall be forthwith ready for public inspection. The middle guilyshaftmen have been employed in costeaning and examining about water-wheel flat, and to prove whether there be one or two lodes passing at D, plan No. 3. It may be interesting to you to know there exists here, near the surface, sometimes indurated limestone, containing spiral, bivalve, and other shells, in a bed of softer lime conglomerate, some 8 or 10 ft. thick; under this a red and yellow ocherous sand, some 8 or 10 ft. mere; near the bottom of which, 17 or 18 ft. deep, we found a bone (I think a rib) 4 or 5 inches long, in a high state of preservation, on the trow of a bill, 40 fms. above sea level: this deposit lies on the primitive lime rock of the country. I mention this as an element for geologistiz; it is, of course, under this we have to seek our lodes. The tops of the hills generally of the colony ma

SOUTH AUSTRALIAN MINING ASSOCIATION-(BURRA BURRA), The half-yearly general meeting was held at Adelaide on the 16th October, when the following report was presented:—

The directors have the satisfaction of stating that their operations for the past six months have been marked with the same abundant success that has hitherto characterised the proceedings of this company.

The ore brought to surface during the last half-year exceeds 11,900 tons, including a

have been marked with the same abundant success that has hitherto characterised the proceedings of this company.

The ore brought to surface during the last half-year exceeds 11,900 tons, including a quantity of low-produce ores, which could not be profitably raised previous to the arrangement with the Patent Copper Company, but the additional quantity will more than compensate for any deficiency in the average quality. The return of ore produced amountly during the last five years, shows the raisings of the last year to have exceeded any other by nearly 50 per cent.; that of the last year being 18,592 tons, and the total raising for five years, 56,428 tons.

By the balance sheet, it appears that the profits acquired by the company from the 31st December, 1848 (the date of the last balancing), to the 29th September, 1849, nine months, amount to 57,055L 8s. 9d., and deducting rent and fees received, together with the balance of undivided profit brought forward, it leaves a profit on the 779 tons of or raised in that period, of 53,8896, 19s. 9d., or 6f. 18s. 4d. per ton. So favourable a result as this has not been experienced since the years 1846 and 1847, when the ores were found unear the surface, and consequently raised at a much less cost. The whole of the transactions of the company, from its formation to the 29th September, 1849, embracing four years and a half of the company's existence, and four years working of the Burra Burra Mines, have now been finally balanced, and the profits during that period amount to 229,535L 8s. 9d., of which 221,760L have been divided among the shareholders, in 2 dividends, and the balance, 7775L 8s. 9d., remains to the credit of profit and loss. The ore raised during this period was 57,755 tons, at a cost of 309,826L 3s. 6d., or 8L 4s. 3d. per ton.—leaving a profit of 226,561L 6s. 10d., or 6L 6s. 1d. per ton.; which, with 1874L 1s. 1td. received for rents, fees, &c., make the amount of profit above mentioned. In valuing the company's property, the greatest care has been taken

77 tatworkmen, 16 men timbering, two chief timber-men, one pitman, eight mine la-b ourers—total employed underground, 358 men: 254 men and 74 boys dressing ore, 12 bourers—total employed underground, 358 men: 251 men and 74 boys dressing ore, 12 men weighing ores, eight handers, 29 whim-boys, 20 carters, seven stable-men, 28 carpenters, three painters, seven stonemasons, seven masons' labourers, six smilts, six strikers, three engineers, two boiler makers, one fitter, six engine and firemen, eight sawyers, 107 labourers, six mechanics, and others variously employed, eight boys ditto, 15 officers, two surgeons—total number employed at the Burra Burra Mines, 977. At Karkulto, one captain, 16 tutwerkmen, one smilth, one carpenter, two labourers—total, 21. Officers in Adelaide, five.—Total establishment, 1603.

The directors, in conclusion, have/much confidence in stating that the affairs of the company are now in such a prosperous condition, that the regular payment of quarterly dividends may be relied on.

From Capt. Roach's report, it appears that the mines throughout never pre-From Capt. Roach's report, it appears that the mines throughout never prosented a more satisfactory and promusing appearance. Kingston's lode in the 30 fm, level is 10 fms. wide, producing malachite and blue carbonate of copper, of the richest description. In Stock's 30 fm. level a lode has recently been cut 10 ft. wide, composed of the red oxide and quartz. Ayer's 40 fm. level yields malachite and red oxide, 40 to 45 per cent. produce. Graham's, Paxton's Penny's, and Peacock's pitches are all in profitable working, and in excavating for the foundation of the winding engine-house a large and rich lode of malachite was discovered, from which 60 tons of 40 per cent. ore were taken at surface. The last sampling was 3854 tons of ore for two months' working. At the Karkulto Mine there is a strong champion lode running north and south, composed of iron and copper, not rich, but very promising; there are two other similar lodes, but as this mine is not yet developed, the captain will be able to report more fully at the next meeting.

similar lodes, but as this mine is not yet developed, the captain will be able to report more fully at the next meeting.

On perusing the balance-sheet and accounts of the proceeds of these extraordinary mines, we find that the ore raised in six months, to 30th Sept. last, amounted to 11,901 tons, which, with the balance on hand, in March, 2229 tons, is 14,130 tons. Of this quantity 1420 tons were exported for sale, 1221 tons were sold in the colony, 5019 tons were delivered to the Patent Copper Company, and there remained on hand 6471 tons. The liabilities consist of—Capital stock, 12,3201; sundries and unclaimed dividends, 161,1291 18s. 6d.—173,449. 18s. 6d.; while the assets, estimating the estates at cost price only, amount to 288,8031. 18s. 9d.—leaving a balance in favour of the company of 115,3541, 9s. 3d. The total expenditure of the South Australian Mining Company within the colony in the year ending Sept. 30, 1850, was 244,4561, 2s. 5d.

## MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

CLD BRIMFTS (tin).—The captain reported, at the meeting of shareholders in November, that the men were driving a cross-cut to intersect the north lode, and his opinion was, that when the lode was cut they would cut a large bunch of tin. That opinion has been realised: one of the men, who has worked on Dartmoor for the last 20 years, says he never saw a richer lode. The captain calculates, by the time the men hole in the shaft, which is about 18 fins. (as they are now driving on the course of the lode), that the men will break 10 tons of tin. The lode is looking well in the shallow adit, which is nearer Brimpt's House, and the men are breaking excellent work for the stamps, which in the course of 10 days will be in full operation; and as there is a large quantity of tinstuff raised, the shareholders may soon expect a dividend. There has been about 11, per share expended, the mine being divided into 512 shares, but shares cannot be purchased except at a high premium.

When Dixo Dong.—The tinstuff raised this month will more than pay cost.

WEST DING DONG .- The tinstuff raised this month will more than pay cost tches are looking well, and every foot they sink in the engine-shaft the

WHEAL CARPENTER.—The adventurers have purchased a 32-in pumping engine, with an 8-ton boiler, and agreed with their engineer, Mr. W. Matthews for taking it down and re-erecting it—the time allowed being four months in putting it to work. The indications of this mine are very flattering—good stones of lead having been broken within 10 ft. of the surface in the open cutters and are transported by the depth from the lade, and at the depth of stones of lead having been broken within to it, of the surface in the open cut-ting, and can now be broken at that depth from the lode, and at the depth of 10 fathoms in the cross-cut from the shaft. They have a large and kindly lode, producing fine stones of yellow copper ore, which can be seen at the nile on the mine

pile on the mine.

FERNHILL WOOD.—This mine lies to the north-west of Bottle Hill, and contains parallel lodes of tin, held under George Strode, Esq., of Newnham, divided into 1024 shares, on which 5s. has been paid, and 10s. called up on Thursday. There has been a great quantity of work done by the old miners on the lodes, of which there are known to be four. The principal operations have been on the middle and north lodes. We have sunk a new shaft between 10 and 11 fms., when we were stopped by water; purchased a 40-ft. wheel, pumps, rods, &c.; cut a new leat, wheel-pit, &c.; and expect that the wheel, pitwork, &c., will be in full work in about five weeks. In clearing for the rods, we found several old shafts and pits; and on examination we found that the whole of the northern lode of three in the south part of the sett has been carried off, as well as the middle lode, to the adit level at 12 fathoms; and we found a small lode gone down, but exceedingly good—rich enough to return a good profit. It is now intended to sink or continue the old shaft on this lode, and drive when about 10 fms. under the old workings; and the opinion of our agent (Capt. Eddy) is that we shall then be in a position to make a return.

GAER MINES (Montgomeryshire).—These mines are situate four miles west

GARE MINES (Montgomeryshire).—These mines are situate four miles west of Llanidloes, embracing the same lodes or range of feins now worked so profitably (on the east side) by the Bryntail and Pen-y-Clin Mining Companies, the sett of the former being only divided from the above by the Clewedog river, which forms the boundary, and the adit of both mines in contra direc-

tion east side of the stream. A second adit, also on the west side the bank, is in good progress, which from its extreme to the present workings must be estimated at not less than 10002; this to the full extent is spacious, and in a fine condition, with lines of iron tramroad for the transmission of the ores, attle, &c. One only of the three metalliferous lodes aiready discovered in this sett is being worked, which has sent off several lots of rich lead ore: the two remaining parallel ones have been proved to contain lead of equal values, specimens of which are on the banks. The setts are large, the royalty favourable, and with ever-flowing streams both sides of the bank being indispensably valuable in dressing and working machinery. These mines are situated on a ridge of the Plinlimmon range of mountains, in a stratum of killas (or clay-slate) formation, as well as in the ceutre of a rich mining district, where boundless wealth is continually being opened to view. These mines, although in infancy, possess encouraging features, and must, when brought to maturity, be viewed as a valuable investment to the proprietors. uable investment to the proprietors.

luable investment to the proprietors.

Wheal Ennis (St. Erme).—This mine is held under a lease for 21 years, only six months of which is yet expired, at 1-18th dues. The sett is very extensive, being a mile from north to south and east to west. There are six known lodes in it, all of which have been wrought on, and each produced lead. An adit has been driven on the most westernly one, about 80 fms., and throughout this driving it presented the most favourable appearances. There is now a shaft sinking to take it about 20 fms. from surface, and on which there is a new 30-inch cylinder engine recently put to work. This lode is an extension of that which has been so productive at the celebrated East Wheal Roseviz.: Middleton's lode; and from its appearance, as it has been seen in the adit lever, the adventurers expect a speedy return from it. The adventure is at present divided into 182 shares. at present divided into 182 shares.

WHEAL HAMLYN.-The caunter lode is much the same in character as last veek. We are all very anxious to cut the great east and west lode, which we tope to do in two months.

WHEAL SARAH .- This mine is looking very well. We have taken down part of the east and west lode that we left against the north, where the grey ore is, and it is still looking better and larger.

DEATH OF CAPT. OLIVER H. MATTHEWS, F.G.S.—It is with sincere regret we have to announce the decease of this gentleman, which took place very suddenly from aneurism of the heart, on Sunday evening, the 15th of Dec. last. denly from ancursm of the heart, on Sunday evening, the 15th of Dec. last, Mr. Matthews was well known to our readers, from numerous contributions. He was also a member of the Society of Natural History of Boston, Massachusetts, and was the superintendent of the mines and works belonging to the Quebec and Lake Superior Mining Company. He had had much previous mining experience in Cornwall, Spain, Cuba, and South America, and his extensive knowledge and amiable qualities endeared him to all his acquaintance, and obtained the highest testimonials of professional capacity and integrity from his employers. from his employers.

from his employers.

French Duties on English Coal.—In the Mining Journal of the 4th instant, we inserted a notice of a meeting in Sunderland, at which an opinion was expressed, and resolutions founded thereon, that the present rate of duties on coal imported into France from England was highly injurious to the commercial and shipping interests of the north of England, and that the unequal manner in which the duties are levied has limited the intercourse between the two countries, and obstructed the natural expansion of trade. We are happy to find that the good example is being followed in other districts. The coal-trade of the West Riding of Yorkshire held a meeting at Normanton on the 9th inst., at which similar resolutions were passed; and a memorial founded thereon was drawn up and forwarded to Lord Palmerston, praying the interference of her Majesty's Government to induce the French Republic to remove a grievance so injurious to the property of both nations. These variable duties are on coals imported by sea into all ports between Dunkirk and Sable d'Olonne, 5 fr.; other French ports, 3 fr.; by land, 1½ fr.; and by the River Meuse, 1 fr. per ton. The duties upon coke are double the above; and the whole pay an additional 10 per cent. From these data the extra duty imposed on British coal can be easily estimated.

New Mining Company.—It may be in the recollection of some of our readers that, some years ago, a company existed in this island under the name of the Mona Mining Company, and had opened works in the parish of Marown. That company, it appears, has been dissolved, and another, named the Tynwald Company formed, having secured a lease over the same district of country as that possessed by the first named company. The Tynwald Company, we learn, have commenced operations, and, as an essential requisite, have just landed at this port a powerful steam-engine and large boiler, for the purpose of erection on their premises.— Mona's Herald (1sle of Man).

A New Glass and Ron Railway Station.—On Thursday the Bucking-hamshire Railway Company contracted with Messrs. Fox, Henderson, and Co., to erect a new station at Rewley, Oxford, which is to be constructed on the same principle as the building for the great Exhibition, and it is to be completed in three months. It is stated that this line to London is to be opened on the 1st of May next.

#### Dew Patents.

SPECIFICATION ENROLLED DURING THE PAST WEEK.

[In the Mining Journal of the 9th November last, in the weekly list of patents, it was ated that one had been granted to "B. Clare, jun.," for improvements in the manufacture of metallic casks. The patentee, it appears, was wrongly described: it should have no John Clare, jun., of 21, Exchange-buildings, Liverpool." We regret this error tould have subjected Mr. John Clare to so much inconvenience as we are informed it has.]

should have subjected Mr. John Chare to so much inconvenience as we are informed if has.]

J. Connor, Hyde Park, gentleman: For improvements in melting, moulding and easting sand, "earth, and argillaceous substances," for paving, building, and various other purposes. Mr. Connop observes that he has discovered that part of his invention which was to have been included under the words "earth and argillaceous substances" does not possess sufficient utility (query, novelty?) to warrant his claiming its exclusive use; and that it is his intention to apply for leave to enter a disclaimer thereof. He then goes on to state that, although the melting of sand with various fluxes is a well-known operation in the manufacture of glass, still the application of this process to the formation of bricks, slabs, steps, mantle-pieces, pipes, tubes, inverts, and such like articles adapted for paving and building purposes, and for the conveyance of liquids under streets and through land, is new, and constitutes, in fact, the invention claimed by him. The methods of, and apparatus employed in such melting, casting, and moulding together the materials used (which are of the cheapest and commonest description), are in every respect identical with those practised and applied in the manufacture of coarse bottle glass; but as, in this case, transparency is by no means an object, the operation of "re-fusing" is dispensed with. While in a heated state, the articles (moulded into the desired forms) are placed in annealing ovens of the ordinary clicular construction, with sand or cementing matter between them, to prevent them coming in contact. The temperature of the oven its line raised to a white leat, until the articles assume a dull brown colour, after which it is gradually reduced, when they will have become devirified, and may be used as required. The patentee makes no claim to any of the above processes when separately considered, or when employed otherwise than for the purpose of his invention, which consists in the manufacture of ar

#### LIST OF PATENTS GRANTED DURING THE PAST WEEK

H. Grissell, of the Regent's Canal Iron-Works, Middlesex, engineer, and T. Redwood Montague street, in the same county, professor of chemistry, for improvements in

of Abridaged Section of the Broadway, Westminster, tobacco manufacturer, for improvements in the manufacture of tobacco.

in the manufacture of fobacco.

S. Hall, late of hasford, near Nottingham, civil engineer, for improvements in the manufacture of starch and gums.

W. Melville, of Roe Bank Works, Lochwrianoch, Renfrew, North Britain, calicoprinter, for certain improvements in manufacturing and printing carpets and other fabrics.

T. Alan, of Glasgow, Lanark, North Britain, ironfounder, for certain improvements in paving or covering roads, streets, and other surfaces of a similar nature.

G. Anstey, of Brighton, Sussex, gentleman, for certain improvements in consuming smoke, and in regulating the draught in chimneys.

W. Robinson, of Holsham, in Holderness, in the East Riding of the county of York, machinist and carried lingual implement maker, for improved machinery for separating.

, and in regulating the draught in chimneys. Sobinson, of Holsham, in Holderness, in the East Riding of the county of York, sist and agricultural implement maker, for improved machinery for separating

orn from straw.

J. C. Milnes, and S. Pickstone, of Radelliffe Bridge, Lancaster, manufacturer, for certain improvements in machinery or apparatus used in spinning, doubling, and weaving cotton, fax, and other fibrous substances.

C. Barlow, Esq., of Chancery-lane, London, for improvements in propelling; also for improvements in machinery for the manufacture of railway chairs.

A. S. Livingstone, of Swansea, Glamorgan, engineer, for improvements in the manufacture of fuel.

C. Cowner, of Swallamonton-buildings. Chancery-lane. Middlessy, for improvements.

acture of fuel.

C. Cowper, of Southampton-buildings, Chancery-lane, Middlesex, for improvements a the construction of apparatus for manufacturing, and apparatus for retaining and rawing off sola-water and other zerated liquors.

R. Cogan, Leicester-square, Middlesex, glass-merclant, for improvements in the application of plain or ornamental glass alone, or in combination with other suitable ma-

plication of plain or ornamental glass alone, or in combination with other suitable materials, to new and useful purposes of construction or manufacture.

F. Watson, of Moss-lane, Hulme, Manchester, gentleman, for improvements in sails, rigging, and ships' fittings, and machinery and apparatus employed therein.

G. W. Lancaster, of New Bond-street, Middlesex, gun-maker, for improvements in the manufacture of fire-arms and cannons, and of projectiles.

J. M. Taurines, of Paris, engineer, for certain improvements in the machinery and apparatus for measuring and regulating the working of engines.

G. A. Buchholz, of Agar-street, Strand, Middlesex, civil-engineer, for improvements in printing, and in the manufacture of printing apparatus, and also in folding and cutting apparatus.

#### DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

- E. Upward, South Molton-street, respirator pipe.

  Mary Ann Allison, Nottingham-place, Stepney, detector pocket guard.

  T. Starkey, Birmingham, button.

  T. Fuller, Kingsmead-street, Bath, laudau carriage body.

  S. and F. Hattersiey, Westbrook-Works, Bradford, eccentric cane, with joint for woolJ. Mark, Exeter, machine for cutting lasts.

  J. Paterson, Wood-street, polka collins.

  T. Clunes, Aberdeen, rotary pump.

  L. Etting, Princes-square, ships' scuttle.

  George Bodley, Broadway, Westminster, safety and ventilating revolving and sliding

  G. Ellis, Fore-streef, City, lady's fur cuff.—Afechanics' Magazine.

#### COMPANY OF COPPER MINERS IN ENGLAND.

Elsewhere we have alluded to a bill, about to be introduced into the House Commons, for the purpose of facilitating the settlement of the affairs of the Governor and Company of Copper Miners in England, and for the better matovernor and Company of Copper Miners in England, and for the better management of the association. The original charter was first granted the 3d of August, 1691, by William and Mary—there being at that time, as the charter states, "a want of skilful artists to refine and purify the great quantities of copper ore found in the kingdom, owing to which great sums of money were transmitted to foreign parts to pay for the same commodity. The parties who were then incorporated had found out several furnaces, engines, &c., and besought, therefore, letters patent to carry on the same as a joint-stock." Oa the 22d of September, the same year, these privileges were extended to Ireland; and on the 9th of February, 1711, Queen Anne further confirmed the letters patent granted by her predecessor. The shares, prior to the year 1741, were 7600, which were estimated at the nominal value of 181 each. At that date, 2400 further shares were issued; and the stock of the company was then land; and on the 9th of February, 1711, Queen Anne further confirmed the letters patent granted by her predecessor. The shares, prior to the year 1741, were 7600, which were estimated at the nominal value of 181. each. At that date, 2400 further shares were issued; and the stock of the company was then represented by 328,835. Ils. 8d. In 1746, a large sum of money was raised by the issue of preference shares and scrip at the rate of 251. each—the holders receiving a preferential half-yearly dividend on that amount of 11. 178. 6d.; this preference stock being represented by the sum of 281,3001. From time to time the court, having borrowed money on debentures, loan notes, &c., their debts now amount in the aggregate to 613,2251, inclusive of 150,0001. held by the Bank of England, and 115,0001. held by different creditors by way of security. On the 10th of October, 1847, the Bank of England advanced a further sum of 120,0001.—interest being paid on both at the rate of 5 per cent. per annum; at the same time taking as a security a mortgage on the whole property. In the year 1849, the case of Warner p. the Copper Miners' Company was heard in the Court of Chancery; and the same year the assignees of Thomas Bruton, a bankrupt, seized some of the property in Glamorganshire on account of debt. The Bank have twice attempted to sell the property; but being aware that by a forced sale not one-fourth of the value of the mortgage can be realised, they have offered to compromise with the company on advantageous terms. As the works cannot be efficiently carried out without a fresh issue of shares, it is requisite to apply to Parliament for the necessary powers. Numbers of poor and industrious people depending on them, it is prayed to afford facilities for prosecuting the works with activity. In order to avoid the difficulties which have brought the company to their present condition, it is proposed that auditors should be appointed to restrict the court from borrowing more than a certain proportion of the amount of their capit meeting is to be held to elect a governor, deputy-governor, and control assistants. A meeting of the debenture-holders and creditors to be held according to advertisement, soon after, to compute and arrange their debts—the debentures held by the Bank of England to be excluded from the computation. Mr. Wood, who has a claim of 2272!. 2s. against the company, to be considered a creditor until the arbitrators of his debt have made their final award. Mr. Lord having entered into a suit of Chancery against the governor and court, to protect the interest of himself and the other shareholders, and to prevent the irrevocable loss of the property, the committee appointed the 4th of April, 1849, have arranged that his suit should be withdrawn on the payment of his cost, not exceeding a sum of 550l. Mr. Lord's claims for compensation for services rendered and outlay, are to be referred to the arbitrators under the Companies' Consolidation Act—the Governor and Court, who opment of his cost, not exceeding a sum of 500%. Mr. Lord's claims for compensation for services rendered and outlay, are to be referred to the arbitrators under the Companies' Consolidation Act—the Governor and Court, who opposed Mr. Lord, both in the Vice and Lord Chancellor's Courts, having now approved of the recommendation of the committee. The stock is to be reduced in these proportions:—The holder of a debenture of 5004, to receive 2504, stock; preference stock, 5004, to have 1254; and the old stock of 5004, to be considered as 624. 10s. The Governor and Court can raise by mortgage the sum of 200,0004, or such further sum, not exceeding the sum of 100,0004, as shall be fixed by a general or extraordinary meeting of the company. These preference shares to be first offered to debenture-holders and creditors. Should they not accept of this offer, they are to lose the benefit; in event of their accepting them, they are to be offered to stock-holders. Auditors are to be appointed at a general meeting of the company at an annual salary—no qualification being necessary. The number of assistants not to be more than ten. The company are not obliged to elect more than five; the qualification of the governor, deputy-governor, or assistants, to be at least 10004, stock, paid up. One-third of the governing body to go out every year, but are eligible for reelection; so that the whole number must go out of office in three years. The company, acting by the governor, deputy-governor, or court of assistants, have power, under the common seal, to draw and endorse bills, and transact all necessary business. The rights of the Earl of Jersey, Christopher Talbot, Esq., and others, under whom the company hold lands and tenenents, are not affected by this bill; but all leases to remain in statu quo, as if the Act had not been passed. ACCIDENTS.

Aberystwith, Jan. 16.—Yesterday, whilst the miners were in full work at the Bwich Consols Lead Mine, situated in the mountain near this place, a portion of the ground gave way and buried two miners, married men, under the falling mass. Immediately on the removal of the rubbish one man was found, but life was extinct; the other body has not yet been found.

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gave way and buried two miners, married men, under the falling mass. Immediately and not be removal of the rabbish one man was found, but life was extinct; the other body has not yet been found.

Cook's Kitchea Mine —As Francis Pascoc, a miner, was at work, on Thursday the 9th inst, a large rock fell on him. Upwards of haif an hour clapsed before he was got out, is recovery.

S. Just. —A givl employed in dressing tin drank out of a bottle containing sulphurle as cid used in refining the metal, mistaking it for water. By timely medical assistance the affects of the acid were arrested, and site is likely to recover.

S. Just. —A givl employed in dressing tin drank out of a bottle containing sulphurle as cid used in refining the metal, mistaking it for water. By timely medical assistance the affects of the acid were arrested, and site is likely to recover.

S. Just. — A givle man and site is likely to recover.

S. Just. — A miner, named Thomas, foil while descending a shaft at Tin Croft Mine, and was so unch injured as to render his recovery doubtful.

Derivation.—W. Cadman, a boy 12 years of age, was found drowned in a pool of water in an ironstone pit.— John Hartland, aged 22, fell down the shaft of Messrs. Addenbrook's call-pit, and was killed by a quantity of stone falling upon him.—R. Westwood, in the employ of Messrs. Jones and Backwell, died from the effect of injuries received while working in Dock Colliery.

— A miner, named Bates, at the Birchill's Old Field Colliery, was ascending the shaft in a skip, when from its not being stopped by the engineman in time, the skip was pulled with violence over the pulley at the mouth of the pit, and the unfortunate man, losing his hold, was thrown on his head upon a heap of iron plates.—He died of concussion of the brain the next day. Much blame is said to attach to the engineman for not promptly attending to the signal.

Faicectegn.—H. Williams was killed by an explosion at the Yniscedwyn Iron-works caused by his imprudently carrying a naked candle to a dangerous pa

wise the consequences must have been very dissertous. Mr. Matthias Dunn, one of the Government Inspectors, visited the colliery hast week, and pronounced black Boy Pit one of the best ventilated mimes he had visited.

Seam Botter Explosion.—On Thursday morning last, about half-past six o'clock, the Seam Botter Explosion.—On Thursday morning last, about half-past six o'clock, the oblier of the steam-engine at Holme-house Colliery explod..d, with a fearful report, killing one man and one woman, and injuring others. At No. 3 pit there are two engines of 60 and 30-horse power respectively, supplied from three circular bolters placed between the engines. It was the newest of these which exploded, completely destroying the engine-louse, and projecting massive pieces of the bolier 60 yards; bricks and timber were projected 300 yards from the spot. The engineer-on darly had only arrived at six o'clock, when the night men left, and a fresh supply of water was being injected, when it exploded. On examining the remains, it appears evident the water had not been allowed to get too low, and at present no cause can be assigned for the accident. The deceased are Jeremiah Price, a lamp cleaner, aged 25, and Ann Turton, 35. A basket maker, the underlooker, and a woman, named Esther Whalley, were much injured by the fragments projected in all directions.

COLLIERY STRIKES IN DURHAM .- The colliers at Coxhoe, Durham, hav COLLIERY STRIKES IN DURHAM.—The colliers at Coxhoe, Durham, havbeen on strike for a week. The grievances of the men are described by themselves as arising from the dismissal of a weighman, who convened a meeting to ascertain who had and who had not paid into the Union fund. The dismissal took place for the above mentioned cause, they said, without the usual monthly notice. The men then struck work, and in consequence several were summarily ejected. The viewer states that the men lay idle on an entire morning, in consequence of the meeting called by the weighman. The result is known. It is supposed that the strike will extend Indeed, a strike at the Washington Colliery was nipped in the bud by immediate ejectments. At the latest moment (says the Durham Chronicle) many men had returned to work.

#### Current Prices of Stocks, Shares, & Metals.

MINES.—An average amount of business has been transacted this week and at higher prices generally for dividend mines. The tendency of prices is still to advance for all the leading and favourite mines of both classes. is still to advance for all the leading and ravorite limites of both classes, which can only be checked by monetary derangements, since every day is rendering this business more safe, and contributing to its steady advance in public estimation. There have again been some important discoveries, and improvements in several mines in the Devon and East Cornwall district, and new concerns, in consequence, are announced for public patronage. Capitalists will do well to be advised: we recommend, as usual, the age. Capitalists will do well to be advised. at utmost caution in investing in purely new concerns.

In the metal market, copper is steady, with a moderate amount of business.—Tin is very firm; an advance expected.—Lead fully maintains its rise, with a limited supply. A fair business has been done in spelter. Foreign tin and Tin-plates somewhat easier.

The Bryntail Mine sold 18 tons of lead ore, at 111. 4s. per ton. The Herodsfoot, 75 tons, at 121. 3s. 6d.; and the Tamar Mines, 73 tons, at 181. 8s. 6d. per ton.—The Pentire Glaze Mines sold 30 tons of lead ores to the Tamar Company, at 101. 9s. 6d. per ton.

181. 8s. 6d. per ton.—The Pentire Glaze Mines sold 30 tons of lead ores to the Tamar Company, at 10l. 9s. 6d. per ton.

The Foxdale (Isle of Man) lead ore, 100 tons, realised 12l. 11s. 6d. per ton, and the same quantity from the Newtonard's Mines sold for 11l. 3s.

An immense piece of rich lead ore, weighing upwards of 25 cwts., was last week brought to surface at the Grassington Mines, Yorkshire. It is from Devonshire's vein, and an excellent specimen of the constituents, not only of that, but of lead veins in general, and as such will form an interesting feature at the Industrial Exhibition.

Two shipments of rich quality copper ore, about 800 tons, have arrived at Swansea, consigned to the Cobre Company.

The sale of black tin from the Mineral Court Mine realised 304l. 12s. 4d.

Important discoveries of rich tin ore are making in Wheal Vincent, in a level of 10 fms. carried under the stream works, now in successful operation; and the further development of the mine will, it is expected, be still more important, when the new shaft is sunk to 20 fathoms, and the lode

west of the western boundary of the United Mines, Tavistock, and is worth about 1302, per fin. It can be cut deeper than discovered, from the 20 fm. level in the United Mines, and level can be brought forward.

and are the United Mines, and all the lower levels can be brought forward in a very short time as deep as the 90.

A valuable discovery is reported at East Crowndale, in the 40 fm. level east, the produce of the lode in which is stated at 60 per cent. of tin, and worth from 120l. to 130l. per fm. It is most productive in the bottom.

From the recent inspection of Tregorden, it appears that the lode in the 30 fm. level is large and very promising, being rich also in some places for silver-lead ore, and has in general much improved lately.

In Old Polberro, according to the report, the lode in the ground above the 27 fm. level has considerably improved within the last few days. The month's produce of tin is estimated at 25 tons. Four pitches have been set on the copper lode.

set on the copper lode.

At South Josiah a fine branch of copper ore has been discovered in At Wheal Penhale an important discovery has been made in opening

on a new caunter lode, intersected in the 30, which is worth 40l. per fm.

on a new caunter lode, intersected in the 30, which is worth 40L per Im.

The Merllyn agent's report is highly favourable; and the returns of ore
will, it is stated, exceed the previous calculations. From one pitch alone
more than 15 tons of ore have been broken by the men during the week.

A company has been formed for working the Weston Lead Mines, situate in Salop and Montgomeryshire. But little expenditure, it is anticipated, will be needed to develope the resources of the mines. The first
meeting, to determine on future operations, will take place on Monday.

At the Alerd Complex restricts, on Monday, the accounts for the two

At the Alfred Consols meeting, on Monday, the accounts for the two months showed—Balance from last account, 419.1 77s. 3d.; ores sold (less dues), 3371l. 0s. 8d.; sundries, 6l. 18s. 1d. = 3797l. 16s.—To costs and merchants' bills for Oct. and Nov., 1392l. 18s. 8d.—By dividend of 8l. per share (2048l.), leaves balance carried to next account, 356l. 17s. 4d.—It was resolved that the future supplies to the mine should be subject to the list of prices charged in the Great Consols and the United Mines, as for as may be precipable. Even the agent's property be savently sonds and seconds.

far as may be practicable. From the agent's report the several ends continued equally valuable with the previous week, and the several ends continued equally productive and promising.

At the Great Consols Mines meeting, on Wednesday, the accounts for Nov. and Dec. showed—Balance from last account, 21277. 17s.; ores sold (less dues), 56771. 16s. 9d.—78051. 13s. 9d.—Mine cost and merchants' bills, 65331. 10s. 1d.: leaving balance in favour of adventurers, 12721. 3s. 8d.

At the Wheel Comfort meeting on Tuesday, the accounts showed—

At the Wheal Comfort meeting, on Tuesday, the accounts showed—Balance from last account, 487. 19s. 1d.; ore money (less dues) to Oct. 24, 1398l. 15s. 9d. = 1886l. 14s. 10d.—Costs and merchants' bills for August, September, October, and November, 1617l. 2s. 9d.—leaving balance in fa-

At the Wheal Comfort meeting, on Tuesday, the accounts showed.

Balance from last account, 487. 19s. 1d.; ore money (less dues) to Oct. 24, 1398l. 15s. 9d. = 1886l. 14s. 10d. —Costs and merchants' bills for August, Sep:ember, October, and November, 1617l. 2s. 9d. —leaving balance in favour of the mine, 269l. 12s. 1d.

The Herodsfoot accounts, as made up for the three months ending Nov., show—Lead ores raised in Sept. and sold in Oct., 929l. 11s. 6d.; raised in Oct. and sold in Nov., 950l.; ditto Nov. and sold in Dec., 913l. 2s. 6d.; copper ores, 40l. =2832l. 14s. —The costs for Sept., Oct., and Nov. were, (including dues, &c.), 269ll. 7s. 6d.; leaving profit of 141l. 6s. 6d. The statement of assets and liabilities show—Cash in hand, 300l. 12s. 9d.; arrears of calls, 17l. 10s.; value of copper ores raised in November, 46l. = 3558l. 2s. 9d. —Dues, 148l. 2s.; doctor and club. 40l.: balance of assets over liabilities to end of November, 170l. 9s. In these accounts, the manager explains that the dues charged are for four months, making a difference on the debti side of 43l. also the expense incurred in the erection of a new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l.; and also 90l. charged in November cost towards the new boiler house, 30l. and 30l. charged in November cost owards the new boiler house, 30

yielding 5 cwts. per fm.

At the Wheal Union meeting, the accounts showed—Balance from last account, 462l. 12s.; costs and merchants' bills from June to December, 991l, 7s. 11d. = 1453l. 19s. 11d.—By ores sold (less dues), 55l. 14s. 9d.; call made in May last, 630l.: leaving balance against mine, 768l. 5s. 2d.

At the West Phonix meeting, the accounts showed—Cash received, 1100l.—Paid for deeds, 29l. 0s. 6d.; cost sheets, for August, 40l. 19s. 3d.; Sept., 43. 13s. 6d.; Oct., 70l. 4s. 11d.; and Nov., 117l. 6s. 6d.; lessees on account, 30l.; sundries, &c., 284l. 6s. 2d.: leaving balance in favour of adventurers, 484l. 9s. 1d. A call of 1l. per share was made, to meet the expenses of building engine-house, and other necessary works.

At the Devon and Courtenay Consols meeting, the report of the committee appointed to inspect the western ground of the sett, was received, expressing a strong engine, as the desirability of working the lodes to

mittee appointed to inspect the western ground of the sett, was received, expressing a strong opinion as to the desirability of working the lodes, to which attention had been previously called by Capt. Rickard, and also recommending that a large water-wheel should be put up. The accounts showed—Balance at last account, 55l. 13s. 3d., mine cost for November, 120l. 0s. 7d.; December, 116l. 9l. 3d.=292l. 3s. 1d.—By last call of 5l., 258l.—leaves balance against adventurers, 34l. 3s. 1d. It was resolved that the number of shares should be 4160, instead of 1040, and a call of 2s. per share was made, to meet the estimated expenditure of the next two months. The report of Capt. Rickard, read to the meeting, expressed the fullest confidence in the result of a vigorous prosecution of operations. the fullest confidence in the result of a vigorous prosecution of operations

the fullest confidence in the result of a vigorous prosecution of operations in the western part of the sett.

The accounts submitted at the Trethevy meeting, showed a balance against the company of 33l. 8s. 8d.—Mine cost for Oct., 122l. 14s. 9d.; for November, 258l. 5s. 4d.; advance on account of engine, 250l.; sundries, 34l. 7s. 1d.—665l. 7s. 2d.—By balance in hand, 282l. 18s. 6d.; arrears of calls, 124l; received on call due in Dec., 220l. 10s.; cash in advance of call, 4l. 10s.—leaving the balance against the mine as stated. A call of 1l. per share was made. Capt. Seymour, in his report, states that the engine-shaft was now 8 fms. below the 30 fm. level, but the influx of water was very great, in proportion (he says) to the size of the lode. He is sanguine very great, in proportion (he says) to the size of the lode. He is sanguine in his impression that a large deposit of copper ore will shortly be met with, and that the mine will ultimately be one of the best in the neighbourhood.

and that the mine will ultimately be one of the best in the neighbourhood. At the West Shepherd adjourned meeting, held on Tuesday last, the accounts showed—Capital account, 1994l.; calls. 552l. 10s.; cash expenses of deputation, 27l. 3s.; to sale of ores, 357l. 5s. 2d.; interest, 7s. 6d.—2931l. 6s. 5d.—By labour cost and merchants' bills, 2862l. 7s. 1d.; interest and commission, 57l. 12s. 10d.: leaving balance in hand, 11l. 6s. 6d.

The accounts of Lamheroco Wheal Maria have been audited by Messrs. Ruston and Price by whom the balance, sheets, from May 30th to Jun. 2d.

Ruston and Price, by whom the balance sheets, from May 30th to Jan. 2d, were examined and found correct, showing a balance of assets in favour of the mine (not including the December cost-sheet) of 1844.6s. 1d. The total sum expended, since the commencement of operations in 1845, is

20,409l. 13s. 2d.; and the receipts on calls, &c., 20,674l. 19s. 3d.

At the West Alfred Consols meeting, the accounts presented a balance against the mine of 956l. 14s. 5d. The particulars of receipts and expenditure have not reached us. To meet the above balance, and for the further prosecution of the workings, a call of 1l. per share was made. Capt. Michell was appointed agent of the mine.

The intended consequence meeting of flying Arian advanturary has been advantaged.

The intended general meeting of Bryn-Arian adventurers has been ad-

A reference to our Share List will again show a large amount of business done in the course of the past week. Some fluctuations will be observed on a comparison with previous prices, but in few instances is the difference very great, the recent advances being well sustained by our difference very gre present quotations.

At the adjourned special meeting of the Company of Copper Miners in England, on Tuesday, Mr. Young, the solicitor, stated that the debenin Edgand, on Tuesday, Mr. Loung, the sonetor, state that the debenture holders had met, and the result arrived at was, that a committee should be formed to co-operate with the shareholders, in order that the bill to amend the constitution of the company should be forwarded in its several stages through both Houses of Parliament; that committee had been appointed, which consisted of Messrs. Joseph Hoare, Francis Edwards, Jansen, and Beattie, who at the same time undertook to raise a subscription to defray the expenses of the bill. A desultory conversation ensued, with regard to the Shareholders' Committee, nominated in April, 1849; ultimately, it was resolved that a committee of shareholders should be appointed to co-operate with the debenture-holders, when the following entlemen were nominated: -Messrs. W. Gilbertson, A. Fowler, W. H. Lord, and J. Paul; and it was arranged that a meeting of the joint com-mittees should take place on Saturday (this day), to see what steps should be pursued in the present crisis of affairs.

In Foreign Mines, there have been transactions in Alten, Santiago,

In Foreign Mines, there have been transactions in Alten, Santiago, United Mexican, General Mining, St. John del Rey, Annotto Bay, Copiapo, National Brazilian, Imperial Brazilian, and Worthing; United Mexican being firm at 5½, and Copiapo having been done at 5½.

The Linares reports, from Messrs. Thomas and Curry, are of a satisfactory character. The pitch in Pozo Ancho, referred to in a former report, has been set at what is deemed a low price, equal to 23s. per ton. The lode in the level west of the winze is looking well, being worth from 2 to 3 tons per fathom, with good prospects of improvement. In Wilson's shaft, now 3 fms. below the 45 fm. level, a splendid lode is reported, worth 6 tons per frathom, and there is likewise a large and proinising lode in Shaw's shaft, with a leader of lead, worth 1 ton per fm. The main operation now contemplated is the deepening of San Thomas's engine-shaft to the 55 fm. level, a work which it is calculated it will take five months to complete, but which is likely to be of great and permanent benefit to the company. The produce for Dec. was 130 tons, and the total ore in stock at Linares, &c., and on ship board, was 411 tons 4 cwts. A parcel of ore from these mines has just been smelted and sold at Newcastle, the produce being from 92 tons 16 cwts. of ore, 65 tons 16 cwts. 2 qrs. of piglead, and 767½ ozs. of fine silver, and the amount of sale, 1297, 13s. 7d. This is of no small importance to the interests of the company, since the gain amounts to full 5 per cent, compared with the plan hitherto adopted,

This is of no small importance to the interests of the company, since the gain amounts to full 5 per cent., compared with the plan hitherto adopted, of disposing of the ore by the usual ticketing.

The Imporial Brazilian advices report no change of importance with regard to the mines. The 24 fm. level had been drained, and further operations were in progress. Some boxes of work have been obtained from the bottom of the 14 fm. level, from the same shoot as that in the back of the 24 fm. level, and more was expected from the same sources. North of Wray's shaft a vein had been discovered, presenting an appearance of promise. A despatch of a later date states that the result of the last ten days' workings did not equal what had been anticipated—the stopes in the back of the 24 and bottom of the 14 fm. level, on the Big Pump vein, being back of the 24 and bottom of the 14 fm. level, on the Big Pump vein, being very poor, from the splitting of the lode. It is intended to sink Gibson's shaft to another level, which, from the powerful machinery at command, was exto another level, which, from the powerful machinery at command, was expected to occasion no difficulty. An improvement is reported in the adit level, north of Wray's shaft, where the vein is of a very promising character, and some discoveries of importance were hoped for near some old surface workings, abandoned by the natives, from inability to go any deeper. At Gongo, the produce from a small arch of ground was upwards of 4 lbs. of gold, and a searching exploration is going forward. The gold, where shows the produce to be from Gongo, for 20 days' workings, 13 lbs. 17 dwts.: and from Bananal, for the same period, 5 lbs. 0 zs. 14 dwt. 18 lbs. 10 ozs. 11 dwts. Total from the two mines, from July 1 to Nov. 12, 135 lbs. 4 ozs. 5 dwts.

A report from Cuiaba, received by the National Brazilian Company gives a brief but encouraging account of the operations at that mine. An accumulation of 150 tons of stones had been made, while the immense stopes and the mine below were deemed to hold out the promise of a lucrative undertaking, when the workings were carried to a greater depth and length. At Hitchens's level, more than 4 fms. had been driven on the course of the lode, and the floors of stone present a good appearance.

The produce for ten days' workings, from October 27, was 3 mks, 4 ozs, 7 oits, 38 grs. No report has been received from Cocaes.

By the letters of the Royal Santiago Company, we learn that the chief operations are still confued to the Perseverancia Mine, where Thompson's shaft has been sunk to the 22 fm. level, the lode being between 5 and 6 ft.

operations are still connued to the Perseverancia Mine, where I hompson's shaft has been sunk to the 22 fm. level, the lode being between 5 and 6 ft. wide, yielding 8 tons of ore per fm. They had commenced to drive east and west from Thompson's shaft, and the produce at several of the levels varies, according to the report, from 3 to 4 tons per fm. In San Joaquin, the sinking of Taylor's shaft below the adit level had been impeded, in consequence of the water. At Ermitano all the copper had been extracted worth removal. The produce for the preceding month had been shout 120 tons, and the expenditure \$10,635.

The Worthing Company's advices, given elsewhere, detail the operations for Sept. last. The water-wheel shaft, it appears, is now 25 fathoms deep, and the under part of the lode had been struck 21 fms. below the level of the cross-cut. Some of the best stones of ore yet discovered have been found in cutting through the south lode at the end of middle gully. Several branches were found to yield native copper, and many good spots of ore, and a lode is spoken of going north of the hill, which is supposed to be a caunter to all the water-wheel flat lodes and branches. Further operations are in progress for testing the resources of the mine. In concluding his report, the inspector mentions as an interesting fact for the

geologist, that indurated limestone exists near the surface, containing spiral, bivalve, and other shells, in a bed of soft lime conglomerate; some 8 or 10 ft. thick under this is an ochreous sand, near the bottom of which has been found a bone, believed to be a rib, 4 or 5 inches in length, and in perfect preservation. The surface of the hills generally are stated to be capped with these maritime deposits.

By the Overland Wail we received the cample decomparts are stated to be

By the Overland Mail we received the ample documents presented at the meeting of the South Australian Mining Company (Burra Burra), full particulars of which will be found in another column, the report showed that the profit from the formation of the company, to 29th September, 1849 (4½ years), was 229,535l. 8s. 9d., of which 221,760l. have been divided among the shareholders, and 7775l. 8s. 9d. remains to credit. During the working for nine months, to 29th Sept., the profit realised on 7789 tons of ore raised, was 53,889l. 19s. 9d., or 6l. 18s. 4d. per ton, the most favourable result since 1846 and 1847, when the ore was found near the surface. Of the entire balance in hand, 29th Sept., 1849 (57,055l. 8s. 9d.), the 11th and 12th dividends of 200 per cent. were paid, amounting to 49,280l.—and leaving in hand, 7775l. 8s. 9d.

We also learn, that the exports of lead and silver ores were greatly on the increase, and the Glen Osmond group of mines exhibited increasing spirit and perseverance in working. The subject of connecting the port and city of Adelaide by railway was again being agitated. Mr. J. H. Paddon, a civil engineer, was drawing attention to the valuable iron ore in the colony, which he states to be inexhaustible, and found in districts By the Overland Mail we received the ample documents presented at the

in the colony, which he states to be inexhaustible, and found in districts containing an abundance of timber. He states that every ton of Australian iron, smelted by charcoal, would be worth 2 tons of English iron smelted by coal, and at the same cost, but the attention of the inhabitants smelted by coal, and at the same cost, but the attention of the inhabitants appears to be too much absorbed in the copper and silver-lead riches, to think of the manufacture of native iron. A fine course of ore had been discovered in the Royal Mining Company's last purchase, at Emu Springs, in the shaft, 8 fms. from surface. The discovery of coal in Doubtful Island Bay was likely to be made available. The exports of copper from Adelaide have been, in 1850, 700 tons, against 35 tons in 1849. Prices of shares—Burra Burra, 2011. to 2031; Princess Royal, 251; Phoenix, 751. to 1001. premium. to 100%, premium.

HULL, THURSDAY .- Messrs. T. W. Flint and Co. state the amount of busines HULL, Thusbax.—Messrs. T. W. Flint and Co. state the amount of business done during the week has not been to any considerable exitent. Tremaynes are about 211, 2; Wellingtons, 161, with dividend; St. Aubyns, 5½,; East Gunnis Lake, 22s, 6d. to 27s, 6d.; Trefusis 171. to 181.; Gustavus, 6d.: West Tolgus, 7½; West Providence, 62½, to 63½, 6d.; Bedfords, 6½, to 6½, ex div. There is a growing feeling in favour of mining shares in this district, but many thousands in the aggregate have lately been invested in these securities, which has caused a hall for the present. Railway shares have been bought to about the usual extent, but there has been an absence of anything like speculation in this department of the share market.

#### LATEST CURRENT PRICES OF METALS.

ENGLISH IRON. a per ton.	Tile £83 0 0
Bar, bolt, & square, London £5 10-5 15	Old copper e per lb. 84d
Nail rods 6 5-6 15	Yellow Metal Sheathing 8d
Hoops 7 5-7 15	FOREIGN COPPER.
Sheets (singles) 7 15-8 5	South American, in bond 77 0-87 0
Bars, at Cardiff & Newport 4 15-4 17 6	ENGLISH LEAD. q
Refined metal, Wales* 3 5 0-3 15	Pig per ton17 10-18 0
Do. anthracite* 3 10 0	Sheet 18 10-19 0
Pigs in Wales 3 0 0-3 15	Pipe 19 0 0
Do. do. forge 2 5 0-2 10	Red leul 19 0 0
5Do., No. 1, Clyde net cash2 3 6-2 4 6	White ditto 24 0 0
Blewitt's Patent Refined Iron	Patent shot 20 10 0
for bars, rails, &c., free on } 3 10 0	
board at Newport*	FOREIGN LEAD. A
Do do for tin-plates bailar?	Spanish, in bond 17 0 0
plates, &c., ditto 4 10 9	ENGLISH TIN. i
Stirling's Patent 7 in Glasgow 2 15 0	Block per cwt. 4 3 0
Toughened Pigs 5 in Wales 3 10-3 15	Bar
Staffordshire bars, at the works 6 0 0	Refined 4 9 0
Rails 4 17 6-5 2 6	
Chairs (Clyde) 4 0 0	FOREIGN TIN &
Small's (Cigac)	Banca, II. C 5 6-4 6 6
FOREIGN IRON, b	Ditto, for Export only
Swedish 11 10-12 0	Straits 4 4 6-4 5 6
CCND	TIN-PLATES, I
'SI —	IC Coke per box 1 8 0-1 8 6
iourieff	IC Charcoal 1 13-1 13 6
Archangel	IX ditto 1 14 0-2 0
remmBer 11 to 11 t	
FOREIGN STEEL.C	SPELTER. m
wedish keg	Plates, warehoused . per ton 16 5 0
Oitto fagget	Ditto, to arrive 16 2 6
ENGLISH COPPER. d	ZINC, H
Sheets, sheathing, & bolts, p. lb. 0 0 94	English sheet per ton 21 10 0
longh cake	
longh cake per ton 84 0 0	QUICKSILVERO per lb. 3s. 9d.
m	

Terms.—a, 6 months, or  $2\frac{1}{2}$  per cent. dis.; b, ditto; c, ditto; d, 6 months, or 3 per ct is.; e, 6 months, or  $2\frac{1}{2}$  per cent. dis.; f, ditto; d, ditto; h, ditto; f, ditto; k, net cash; 6 months, or 3 p. ct. dis.; m, net cash; n, 3 months, or  $\frac{1}{2}$  p. c. dis.; o, ditto,  $\frac{1}{2}$  dis.; eCold-biast, free on board in Wales.

Welsh Bars are steady, and without any alteration in price.

Scotch Pics continue inactive, but steady; and as buyers hold off, and sellers do not ress sales, but little has been done.

Lead.—The market is firm at the late advance, and the supply short.

Foreign Tin has been very firm, but the actual transactions not considerable; prices aid are, however, the turn in favour of the seller.

English Tin.—Smelters decline selling, and will not name a price, except for very small its.—Tin-plates rather easier, but the demand good.

Coffer steady, and a moderate business doing.

Spelter.—A fair business has been done at 161, 2s. 6d.

GLASGOW, JAN. 16.—Since our last report the market for Scotch piz-iron has been quiet, and prices a shade lower. During the last two or three days, however, there appears to be a better feeling, and we have but few sellers of warrants for good brands, free on board here, and mixed Nos. under 44s. 6d. per ton, cash, and for shipment at 44s, payable against bill of lading; still some weak parties, unable to obtain an advance upon sorip, are obliged to accept rather lower prices. The want of vessels continue to be much felt, and higher rates of freight are offered.

TICKETINGS FOR ABOUT 100 TONS FOXDALE LEAD ORE. Douglas, Isle of Man, Janua

Bidders.	Price	per	Ton.
Sims, Willyams, Nevill, and Co Llanelly (purchasers)	£12	11	6
Tamar Smelting Company Beeralston	. 10	17	6
Thomas Somers - Bristol		6	6
Walker, Parker, and CoDee Bank	. 12	10	0
Mather and CoBagillt	. 11	18	0
Newton, Keates, and CoBagillt	. 12	2	0
Pontifex and Wood-London		1	0
Locke, Blackett, and CoNewcastle	11	10	0

#### TICKETINGS FOR ABOUT 100 TONS NEWTONARDS LEAD ORE.

Douglas, Isle of Man, January 15.				
Bidders.	rice	per	Ton.	-
Walker, Parker, and Co Dee Bank (purchasers)	£11	3	0	
Tamar Smelting Company—Beeralston		5	6	
Thomas Scarle Bristol		0	0	
Sims, Willyams, Nevill, and CoLlanelly	11	2	6	
Newton, Keates, and Co.—Bagillt	10	10	0	
J. P. Eyton-Llanerchymor	10	5	0	
Pontifex and Wood-London	9	17	0	
Looke Blackett and Co - Newcastle.	913	10	42	

Sold at Bugillt. T.ms. Price per Ton. Purchasers. 18 ..... £11 4 0 .... Newton, Keates, & Co. Herodsfoot ...... Sims and Treffry. Sold in London .... 73 .... £18 8 6 .... Tamar Company.

#### BLACK TIN.

Mine.										To	28	c.	gr.	168.				Price	per	T	m.				Purchaser.
Mineral Court	 									- 4		14	3	19				£57	0	0					Danbuz.
ditto										. 0		8	0	5				28	0	0					ditto
ditto	 									0		6	2	22				56	0	0					ditto
ditto	 ٠.					٠.		•	٠.	0		5	0	12				16	0	0				d.	ditto
Total	 5 1	OI	ns	ı	14	0	W	it	5.	3	gri	8. 5	2 lbs		An	10	un	t of m	one	v.	30	41	1.	12	s. 4d.

#### NO SALE on Thursday last, January 16.

Copper ores for sale on Thursday next, at the Royal Hotel, Trure is.—Devon Great Consols, Wheal Josiali, Wheal Maria, Wheal Fann aria 1512—West Caradon 357—Fowey Consols 236—Wheal Friend cels.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Maria 1512—West Caradon 357—Fowey Consols 236—Wheal Friendship 141—Bedford United Mines 136—Wheal Maiden 24—Wheal Jewel 11—Whe 101s 5.—Total quantity of ore to be sold, 2613 tons.

sols 5.—Total qualitry of ore to be sold, 2013 tons.

Copper ores for sale on Thursday week, at the Royal Hotel, Truro,—Mines and
—Consols 371—Perran St. George 554—United Mines 497—Treviakey 485—Par
302—South Caradon 2 4—South Tolgus 175—Trethellan 114—Treleigh Cons
Wheal Mary 73—Wheal Ellen 66—Wheal Unity Consols 53—Wheal Mary 38—Henry 37—Gonamena 30—Carthew Consols 23—Wheal Penhale 6.—Total, 3322

SWANSEA, for Sale January 21.—Cobre, 802—Cuba, 340—Santiago, 365—West Kaw-r, 320—Knockmahon, 160—Kaw-aw, 104—Ballynoe, 42—Paringa, 40 = 2173 tons.

#### NOTICES TO CORRESPONDENTS.

The Bistory of Mining,

THE RISE AND PROGRESS:
together with Notices of the Early Methods of Worsing; Ancient and Modern
Inventions, with their subsequent Improvements; comprising also
A SKETCH OF METALLURGICAL OPERATIONS,

om the EARLIEST PERIOD to the PRESENT TIME.

#### The Great Crhibition.

In the "Mining Journal" will also be given a detailed description, with all necessary illustrations, of every object connected with MINING and ENGINEERING, which may be produced at the forthcoming Great Exhibition.

#### The Campendium of British Mining,

BY J. Y. WATSON, ESQ., F.G.S.

We have the pleasure to announce, that Mr. Watson has consented to revise and correct, to the present time, his interesting EPITOME OF BRITISH MINES, for re-publication in our columns—the third portion of which appears in this day's Journal. In the "Compendium of British Mining," it will be remembered, the actual position of the different mines is accurately described, both as to capital and working.

At the end of each year, a copious Index is published, which renders the volume an interesting and valuable record.

"A Looker-on" (Truro).—Free shares, as they are termed, are a certain number set aside for the promoters of a mine, as part compensation for its value, or for any expenses they may have been subjected to in laying open ground, purchasing machinery, &c.—all of which may become available to the new company. The value of the free shares are regulated necording to circumstances, being exonerated from payment of one, two, three, or more deposits, as the case may be, when they become liable equally with other shares, and equally entitled to dividends and other advantages. In the case of South Crenver, it appears from the prospectus, that the owners are to have 144 shares, free from all calls, which, on the entire capital of 10,000. being called up, or 84, per share on 1230 shares is to be paid to the owners, 1875£; together 3027£—nearly one-third of the entire capital. It depends on the work done, the ore in sight, the machinery and property on the mine, and the judgment of parties about joining the adventure, whether this sum is exorbitant or otherwise. From Capit. Richards's report, it appears that, on pumping out the water, a large amount of copper left in the levels will be available for market.

A Miner" (Camborne).—The paper descriptive of the Camborne District appeared in

A Miner" (Camborne).—The paper descriptive of the Camborne District appeared in the Journal of the 24th August last.

the Journal of the 24th August last.

West Wheal Friendhiff.—"A Shareholder" writes to inform us that the adventurers in this company are much indebted to Capt. Carpenter, of Wheal Anderton, who was employed by a large shareholder to examine and report on the mine, and the efficiency of the machinery. He suggested certain alterations, which were carried out, and the results verified the correctness of his views—the water being in fork by half-past two o'clock on Wednesday last. The abie engineer of Wheal Maria was present for other shareholders, who was also appealed to, and fully confirmed Capt. Carpenter's suggestions. Our correspondent also says, that instead of 4000/. expenditure, as stated in our "Mining Notabilia" of last week, the cost to the present time has been between 5000/. and 6000/.

5000f. and 6000f.

SPEARNE CONSOLS.—Sir: In reply to the managing agent, wishing me to meet him on the mine, I beg to say, instead of my going to inspect, I offer to deposit the sum of 2t., if Capt. Carthew will do the sume. that an independent agent may be appointed, who will give a correct statement of the prospects, and let the same be fully reported in your Journal: when, if the mine is as promising as reported in your paper of the 28th December, I will pay for the inspecting.—A MINEE: St. Just, Jun. 14.

THE IRON TRADE—"X. X."—The consumption of iron in England, in 1820, was 400,000 tons; in 1840, 1,000,000 tons; in 1845, 2,200,000 tons. The returns for 1850 have not yet been made up.

yet been made up.

W. R." (Evesham).—Mr. Shillibeer, the undertaker in the City-road, had a few years since a patent domestic apparatus for supplying gas, the retorts for which were placed besides a kitchen range, and the premises were lighted by it. Messrs. Crosley, Sons, and Galsworthy manufactured, about two years since, for the patentee, a beautiful arrangement of apparatus for producing gas on any scale for domestic'or other purposes, from oil, spirits of wine, waste fats, spoiled rum, or any hydro-carbon might be employed, and which was exhibited in operation at their premises, Emerson-street, Southwark-bridge-road. Mr. White proposes to erect apparatus on a domestic scale for his hydro-carbon gas, and any gas engineer would undertake to erect the necessary works, as the economic production of gas for domestic artificial illumination is perfectly practicable on any reasonable scale.

"M. R." (Tayistock).—At least, there is much difference of opinion respecting the value of the satt. If false representations have been made, no matter by whom, it cannot be long before they are exposed. The fact of doubt having been raised, and the spirit of enquiry instituted, is a sure indication that truth must, sooner or later, prevail. We have little doubt that an authenticated report, from a competent and impartial authority, will appear in a week or two.

rity, will appear in a week or two.

A Shareholder," is certainly entitled to derive what comfort he may from the fact of the contiguity of the Cobre Mines to those of the Royal Santiago, which, by the way, was not lost sight of at the meeting. It seems but a sorry satisfaction, nevertheless, if this proximity is productive of nothing better than the spectacle of their neighbours thriving better than themselves, which just now appears to be the case as regards the Santiago Company. According to Mr. Taylor, who was termed by the chairman the "mentor of the board," the "pertenencias" partake of the character of a backgammon board, some squares being held by the Santiago, and others by the Cobre Company, only it unfortunately happens that most of the luckless squares have failen to the lot of the former. A metaphor is not quite equivalent to a fact; but it is our earnest hope that the Santiago Company will, in the end, contrive to hold possession of the right squares, when there is no doubt their affairs will come speedily yound.

when there is no doubt their affairs will come speedily round.

\*W. R." (Leicester).—The subject has been already so fully discussed, that we do not fee disposed to open our columns to any further communication—certainly not at present 
VENTILATION OF COAL MINES.—We have received a communication from Mr. W. Radley, dated Paris, January 9, relative to the observations of "M.I.C.E.," in our last week's Journal, on Mr. Radley's statement of a sudden influx of 1,500,000 cubic feet of carburet of hydrogen into a mine. Mr. Radley states, that he nover notices replies from anonymous correspondents beyond their mere perusal; but if "M.I.C.E." will forward his name, he shall be 'satisfied of the writer's knowledge and experience relative to explosions.

We have been expecting the promised specimens of slate which "C. A. P." (Exeter) wrote as being on their way to our office. On their receipt, we shall have some remarks to make.

marks to make.

A Dissatisfied Shareholder" should attend the next meeting, and endeavour to ascertain information on the points referred to. The question of salaries can certainly be better enquired into and arranged at a meeting than through our columns.

G." (Loughborough).—There is no mode of proceeding under the Cost-book System by which the amount deposited may be recovered. If our correspondent has purchased, and had transferred to him, shares in an unproductive mine, with the opportunity of previous enquiry neglected, he must put up with the consequences. If any party, from interested motives, has wrongly informed him as to the produce and value of the mine, and induced him to purchase valueless shares, his remedy is by action at common law.

and induced him to purchase valueless shares, his remedy is by action at common law,

"A Shareholder" (Colchester).—We are not answrable for the comparatively meagre account given of the proceedings of the Pennant and Craigwen Company, as our correspondent will discover, on asking the directors why they preferred to hold a private instead
of a public meeting. It may not be difficult, it is true, to ascertain what was done,
but it would not be quite so easy to learn the why and wherefore of their decisions. There appears, however, no sort of obscurity about the main fact, which is, that
more money was wanted, and that a fresh call was made to raise it. The reimbursement of the directors was one reason assigned for this appeal to the purses of the shareholders, and the other, the further prosecution of operations at the mine. Which had
most weight, either as regards the directors in asking, or the meeting in granting the
boon, might be hard to say, and seems now of little consequence.

"E" (Outblu).—We never interfers to the sale or nurchase of shares. An application to

most weight, ether as regards the directors in asking, to the one-canging the boon, might be hard to say, and seems now of little consequence.

"F." (Dublin).—We never interfere in the sale or purchase of shares. An application to any broker will meet prompt attention.

The patentee of the metallic casks, noticed in the Journal of the 9th November last, was Mr. John Clare, Jun., of 21, Exchange-buildings, Liverpool.

Inquirer,"—No operation requires greater relecty for the attainment of the requisite accuracy, than the grinding and polishing of specula for reflecting telescopes. It is in truth the most difficult of all the processes of grinding and pollshing for the production of form. The perfection of the refracting telescope is in a great measure limited by the difficulty of grinding and pollshing the lenses to the correct spherical figure, but an amount of error that would be quite passable in the best lenses, would be altogether inadmissable in the specula of large reflecting telescopes—consequently, a very high degree of accuracy of form is essential, and at the same time a high polish is of necessity required to produce a reflecting surface. The ordinary difficulties of producing very accurate and highly-finished surfaces are also increased by the intractable nature of the altoy of which specula are formed.

"A Miner" (Liskeard).—Our correspondent could hardly have expected us to publish such a statement as that forwarded, without even knowing the writer's name.

"J. Y." (Cheltenham).—Refer to the third volume of Mr. Charles Holtzapffel's work on

"J. V." (Cheltenham).—Refer to the third volume of Mr. Charles Holtzapffel's work on "Turning and Manipulation," in which every kind of abrasive process is most fully described. In addition to the mechanical details, a great deal of information of much interest to those attached to such pursuits will be found in the work, which is hardly to be equalled by any other of its class, for its amount of knowledge on tieses special topics, and the admirable clearness with which it is conveyed. The volume last published, treating solely of those processes which cannot be accomplished with cutting tools, cannot fall to comprise full information as to the particular process sought for.

We have a letter for "A Country Subscriber" (Lincoln), whose address we have mislaid: also one for "A Staffordshire Man," who some time since requested information on sinking. Ec.

W. N." (Holborn).—The price appears a very high one—more, in fact, than the appearances of the mine at all warrant. Apply to a broker, who will advise as to the best course to be adopted. We invariably recommend the strictest inquiry before embarking capital in any mining adventures.

ing capital in any mining adventures.

Amateur."—In all cases of cutting valuable gems, the principal object of the lapidary is to fashion the stone, so as to produce as much display as can be obtained without materially reducing the size of the gem, and this circumstance in great measure determines the ma mer in which is is cut. This is especially the case with the diamond, which is always found in the form of an octohedron, more or less perfect in form; and unless the diamond has defects, it is always cut as a brilliant, with on octagonal base, that being the largest regular figure that can be inscribed within the octohedron. Diamonds that have defects are split by cleavage, and the pieces are cut into rose diamonds, and which form is also adopted for those whole diamonds that are too thin to be cut into brilliants. Other valuable gens are in like manner cut into the largest regulas forms they will respectively produce.

8.5. "The improvement in the iron trade, of which the independent testicous beautiful."

galar forms they will respectively produce; S.\* — The improvement in the iron trade, of which the independent testimony be rom different quarters leaves no doubt, is not limited, as our correspondent will as ne published accounts, to this country, since a general activity pervades most hard it he iron manufacture abroad as well as at home. This is quite consistent, more

with the fact of our increased exports, since these depend not so much or injurious rivalry, as on the general development of the resources of any caides, the doctrine of protection is still he of in high esteem, both among of and in free and enlightened America; and our exports are not at present limuch alarm for the favourite system, which it is the delight equally of our American brethren to foster and uphold.

We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses—not that their communications should, con-sequently, be noticed, but as an earnest to us of their good faith.

\*.\* It is particularly requested that all communications may be addressed-

tall commun.
To the Editor,
Mining Journal Office,
26, Fleet-Street, London. And Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprietors.

## THE MINING JOURNAL

Railway and Commercial Sagette.

LONDON, JANUARY 18, 1851.

The MINING JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

We would call the serious attention of our readers, particularly those interested in collieries, and still more earnestly the owners and viewer of the one under notice, to a communication in another column, on the dangerous position of the Jarrow Colliery, and the impending certainty of another destructive explosion at no distant day, if the present mode of blasting by gunpowder and using naked candles is persisted in. This colliery has for many years possessed an unenviable notoriety, as being one of the most fiery, and probably the worst ventilated, of any coal mine in the north; and that its owners and viewer should set at defiance all the urgent entreaties of their men, in their earnest pleadings for their lives, the recommendations of the Government inspectors, given after close incommendations of the Government inspectors, given after close inspection and mature consideration; and the warning of scientific experience, as certain of particular results as effect follows cause, appears such a wanton and wicked display of trafficking with the lives of scores of workmen, for a paltry pecuniary saving, as will astonish those who are unacquainted with the dangers the poor working collier has to encounter, and the cupidity of some of our colliery proprictors, who would feel less affliction at the immolation of a hecatomb of victims than in the expenditure of a few pounds for the prevention of the catastrophe. In laying before the world the observations of "M.," in the columns of the Mining Journal, the parties accused have a warning, for the neglect of which there will be no excuse; and if the calamity predicted by our correspondent takes place, with the usual horrible and fatal results, we bid them beware! as we think no 12 honest and intelligent men could concientiously return any other verdict, at least, than manslaughter death, under such aggravated circumstances, morally amounting to wilful murder. The views taken by our correspondent are no dreamy theories; he is, from experience, well able to form an opi-nion of the matter; he states facts, startling naked facts! which no sophistry can invalidate, and no observations of ours alter or im-prove; and in closing these remarks, we would again recommend our readers to a careful perusal of his communication. There are, unfortunately, no penalties laid down in the recent Act for disregarding the recommendations of an inspector of Government, but flagrant opposition, such as is here described, will compel such an amendment of the Act, as shall place colliery owners still more securely within the pale and punishment of the law.

The returns from the different mining districts of the United Kingdom, and the intelligence obtained from the colonies, are now sufficient to assure us that the mineral wealth of our empire will be fairly and fully represented at the Great Exhibition. There is scarcely and fully represented at the Great Exhibition. There is scarcely a locality of any note from which mineral specimens will not be forwarded; but it is still important for our miners to remember that it is desirable the three-volume catalogue should contain some notice of all necessary mines, particularly such as produce ores of any peculiar character, and this can only be secured by their having specimens in the Crysta! Palace. The object of this large catalogue, which will be carefully annotated by scientific and practical men, is to exhibit, as in a directory, the localities from which any substance may be obtained, and every manufactory from which an marketable material may be forwarded. We have seen a classifi cation of the objects, which it is known from the vouchers will be found in the Exhibition, and from it we have extracted the following, as showing the great variety of objects connected with the processes of mining and metallurgy. It must be remembered that the first division is understood to include plans for improving the modes of working, and otherwise, as shown by drawings, models, &c:—

I. MINING AND QUARRYING.

I. MINING AND QUARRYING.

Quarries and open workings.

Streaming—washing alluvial deposits.

Mines worked on the lode.

a. Sinking of shafts.—b. Rising sumps.—c. Cutting adits.—d. Driving levels.

Mines worked on the bed.

a. Sinking shafts.—b. Driving levels.—c. Cutting headings.

Salt deposits.

Hydraulic-engines, steam-engines, and water-wheels, as employed for pumpi winding, or crushing. igines, steam-engines, and water-wheels, as employed for pumping

6. Hydraulic-engines, steam-engines, and water winding, or crushing, or crushing and raising miners.

7. Geological maps, models, plans, and sections of metalliferous and coal mines.

II. METALLURGY.

Methods of dressing and rendering ores merchantable.

Methods of roasting, smelting, or otherwise reducing ores.

a. The common metals, as irou, copper, zinc, tin, lead.—b. The metals more generally used in combination, as antimony, arsenic, bismuth, cadmium, cobait, nickel, manganese, &c.

Methods of preparing and rendering merchantable the nobler metals, as gold, silver, mercury, paliadium, platinum, &c.

Adaptation of metals to special purposes.

a. Metals in vatious chemical states, as iron in the condition of cast and malleable iron, steel, &c.—b. Metals in their progress to finished manufactures, as pigs and ingots, sheets, bars, wires, &c.

Alloys, and methods of rendering more generally useful metals and their alloys—
Statuary, bronze, gun, bell, and speculum metals.

Briss and alloys need as a substitute for it.

White alloys, as Britannia metal, German silver, pewter, &c.

Type, sheathing metals, and other alloys.

III. NON-METALLIC MINERAL PRODUCTS.

III. NON-METALLIC MINERAL PRODUCTS.

-Silicious or calcareous freestones and flags

1. Gerns and precious must selected by the selectific purposes.
2. Minerals used as fuel—
All kinds of coal; lignite and peat; bituminous bodies and native naphtha.
3. Massive minerals used in construction.
a. For purposes of building generally:—Silicious or calcareous freestones and figranite, porphyritic, and basaltic rock.
b. For purposes of ornament, decoration, and the fine arts:—Marbles; alaba before the purposes of ornament, decoration, and the fine arts:—Marbles; alaba before the purposes of ornament, decoration, and the fine arts:—Marbles; alaba before the purposes of ornament, decoration, and the fine arts:—Marbles; puzzola

granite, porphyritic, and busalite rock.

b. For purposes of ornament, decoration, and the fine arts:—Marbles; alabaster, spar, &c.; serpentine and other rocks in a polished state.

c. Cements and artificial stones:—Calcareous and hydraulic cements; puzzolanos; gypsum for plaster; artificial stones.

Minerals used in the arts and manufactures.

Simple bedge or compounds containing the alkaline or alkaline earths—those

a. Simple bodies or compounds containing the alkalies or alkaline earths—those used principally for culinary purposes, or for medicine, salt, saltpetre, mineral waters, &c.—b. Earthy and semi-crystalline minerals—casting sands, a. Casting sands,—b. Minerals used for grinding and polishing, as flints, honestones.

6. Casting sames.—

5. Earthy minerals used for pottery and glass—

Sands, limestones, &c., for glass-making.

Various clays and felspathic minerals, as those used for bricks, tiles, and other kinds of pottery and porcelain.

Graphite.—Lithographic stone.

Various other minerals, as alum, schists, fuller's-earth, &c.

The copper ores of the kingdom appear to be well represented, as are also the lead ores of every locality, except Fintshire, from which the contributions promise to be very small. The loss will only be to the mine proprietors and lead smelters themselves, since the lead ores of the northern and southern portions of the kingdom will be largely contributed, and every process of smelting very fully illustrated. To the mineral productions of Sonth Australia and from Canada we have already alluded; we believe these will form a very attractive feature of the mineral department. It is very satisfactory to know that the Exhibition has given an impetus to discovery, and metalliferous ores and earthy minerals will be forwarded from many districts where their existence has not been hitherto such many districts where their existence has not been hitherto suspected. We have reason for believing that it is not too late, if application is made in the proper quarter, still to obtain space for any interesting object connected with mining, mineralogy, or metallurgy.

The inquest on the bodies of the three unfortunate men who were killed at the Oldcastle Colliery, belonging to Messrs: Sims, Will-Lyams, Neville, and Co., was adjourned, for the purpose of communicating with the Government through the Secretary of State, as required by the provisions of the Act of Parliament, and resumed yesterday week, when the usual verdict, ready cut and dried, of "accidental death by the breaking of a chain," was returned—the coroner having informed the jury that the Secretary of State, in his reply, stated that he did not consider it a case in which it was necessary to send down a Government official. It appeared, from the evidence, that one of the men. David Longhurst, sen. was an the evidence, that one of the men, David Longhurst, sen., was an exceedingly tall man, 6 ft. 4 in. or 5 in.; he usually-went up astride exceedingly tall man, 6 ft. 4 in. or 5 in.; he usually-went up astride on the edge of the basket, one leg hanging out; this position made the basket hang sideways, and rendered it dangerous. There were two guide chains and a rope attached to the basket; one chain is supposed to have given way, and the jerk broke the other and the rope. The weight of the basket was 5 cwts., and with its then load could not have exceeded half a ton, and yeti, was stated that the chains had, when new, been proved for 3½ tons. It is well known to engineers and ironfounders that the best made chains, with every link carefully proved, can never be depended on—some unsound portions from unexplained and undiscoverable causes, although they have stood proof, become defective in course of working, and though they have stood proof, become defective in course of working, and these distressing and fatal accidents are the results. With wire rope comparatively few accidents from breakage have resulted; and when it is known to be not only safe, but in the long run decidedly so much more economical than ropes or chains, is it not a monstrous absurdity to persevere in the use of the most expensive and dangerous of two commodities? Here is also another instance, where Kovepanyare's restrictions. severe in the use of the most expensive and dangerous of two commouties? Here is also another instance where FOURDENTIER'S patent apparatus would have been the means of saving to their families three valuable lives; and a proof that as efficient means of avoiding accidents are within reach, these continual verdicts of accidental death are entirely misplaced and ill-timed: they should, at least, be qualified with severe rema-on the recklessness shown with regard to the safety of the collier's life.

In another column will be found some remarks from two corre-In another column will be found some remarks from two correspondents on the subject of the Share List—one from "A Subscriber," fully agreeing with the suggestions of "Mentor," published in the previous Number, of dividing all mines into four classes only, as "Mines in Cornwall," "Mines in Devon," "All other British Mines," and "Foreign"—the other from "Simplex," expressing a general dissent to the alteration from our old general alphabetical plan. We have received numerous other communications on the We have received numerous other communications on the subject, some being favourable to the new plan, others sweeping de-nunciations against any change whatever. As a general reply to our correspondents, we can only say that we are by no means wedded to any particular arrangement—our object being solely to present the list, which has now become a formidable affair, and highly expressive of the increased confidence and interest in mining enter-

the list, which has now become a formidable affair, and highly expressive of the increased confidence and interest in mining enterprise, in a form the most satisfactory, advantageous, and suitable to the majority of our readers, and shall eventually adopt as permanent that which appears to approach nearest to a unanimity of opinion, that it affords the most correct means of ascertaining the real value of mining property, and most facilitates the research.

It is perfectly true that only the practical and experienced, in mining localities, can at once know which district to apply to for any particular mine, and the alteration has received the unqualified approbation of such parties. We are aware that dividing between 200 and 300 mines into a dozen classes may have caused some difficulty of research to the inexperienced, but under the form adopted, it struck us forcibly that we were presenting the necessary information in a shape which would expressively teach those details which, to all interested in mines, we consider highly necessary to be known; and we cannot help feeling some surprise at one expression in the communication of "Simplex," that "he holds shares in nine or ten mines, in none of which has he ever felt any interest to know the exact situation of." Particular districts vary in the nature of the strata, mineralogical character, and geological formation; and although it is unwise, and risking too much, to purchase a stake in a new mine, merely because it is in the near neighbourhood of a productive one, or even on the course of the same lodes, unless explorations have given satisfactory indications, still, having ready means of ascertaining at a glance not only the district in which any mine is situate, but the particular group of adventures in progress therein, must, we believe, be not only gratifying, but advantageous to the majority of our mining readers. As we not only the district in which any mine is situate, but the particular group of adventures in progress therein, must, we believe, he not only gratifying, but advantageous to the majority of our mining readers. As we have, however, as before observed, not pinned our faith to the infallibility or perfection of any particular plan, it must be self-evident that the pains and trouble we have been at in revising the Share List has only arisen from an ardent desire to render it of real utility to the mining world, and satisfactory to "One and All."

In another column will be found a notice of the adjourned special meeting of the Corper Miners' Company of England. From this it will be seen that a committee of shareholders has been appointed it will be seen that a committee of shareholders has been appointed to co-operate with the debenture-holders in carrying the bill to amend the constitution of the company through the Houses of Parliament. This is decidedly a step in the right direction; but we would ask the question, why has not this same conclusion been arrived at long since? We may say, for the last five years, the affairs of the company have been in the most complex state; and though we are willing to accord all due meed to the late Shareholders' Committee in the arduous task which they undertook in April, 1849, yet the inquiry suggests itself, what has been the result of their labours? An abortive bill was prepared by them, which was so loosely worded, that it was rejected by the committee appointed to enter into its details, and report on its merits. Efforts were, we believe, made to reconcile the conflicting interests, but without any success, and the finale has been that another committee has been nominated, to act with the debenture-holders. One of the shareholders, Alderman the finale has been that another committee has been nominated, to act with the debenture-holders. One of the shareholders, Alderman and Sheriff Carden, at one of their meetings, observed that he had sat on several committees of this company, and the result had been they had all ended in "smoke." So it has been with the last committee, of which, we believe, the worthy alderman was one, but never participated in the duties, believing it would terminate as he anticipated. Among the members of the new committee will be found the name of Mr. W.H. LORD. It may be remembered this gentleman opposed several of the proceedings of the Governor and Court of Assistants, and had recourse to law proceedings, which were opposed, tooth and nail, by the governing body. ceedings, which were opposed, tooth and nail, by the governing body. However litigious and contrary to law that gentleman's conduct may have been, results have shown that his complaints were based on equity, justice, and common sense; and we confidently hope that the energy he has hitherto displayed, at personal inconvenience and pecuniary risk, in behalf of the more supine shareholders, will be now exercised for the purpose of resuscitating the company. As soon as the property is cleared from its present incumbrance, and the proposed bill receives the Royal Assent, propositions, we are told, will be made to raise by subscription a capital of 300,000. on preference shares and mortgage debentures, nearly the whole of which may be considered as working capital. The present establishments are now in good working order; the price of copper, and all other metals, are likely to rise; while the tin-plate department at Cwm Avon is in a most flourishing state—the make having risen from 1200 boxes per week to 2000. The old adage says—" Better late than never;" but we do think, had the disposition among the several interests to amalgamate been shown earlier, that it would have been better for all concerned, and that the profits now accruing would have been much more properly applied in a division among the shareholders than swelling the plethoric coffers of the Bank of

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England. The charter is too valuable to be lost. The company, for some time, has been nearly insolvent, and it has only been from the cause that the property, if sold, would not realise anything like its real value, that has prevented the creditors forcing it into the Court of Bankruptcy. If the bill to be introduced next session is passed, much will be done to assist the company to reconstitute itself. Without the strong and hearty co-operation of all concerned, this, however, will be fruitless: a determined will and united purpose is absolutely necessary; all petty differences must be merged, and we trust the joint committee will work to that end, so that we shall be able shortly to announce the complete renovation of the Ancient and Honourable Company of Copper Miners, in all its pristine vigour and and Honourable Company of Copper Miners, in all its pristine vigour and extended sphere of industry. The destiny of thousands depends on their exertions; and we do not wish to record that these committees, as well as their predecessors, to use Ald. Carden's words, have ended in "smoke."

After the several futile attempts which have been made, during the past few years, to establish an association for the protection of patents, it gives us much pleasure to ouserve, notice a property before us, that the subject has at length been warmly taken up by before us, that the subject has at length been warmly taken up by ats, it gives us much pleasure to observe, from a prospectus now several gentlemen of eminence and influence in the eagineering and meintific world, and that a body of patentees, and proprietors of patent property, is now formed into a company, under the title of "Association of Patentees and Proprietors of Patents for the Protection and Regulation of Patent Property." Among the promoters of this association, formed for the obtainment of most desirable results, we find the following highly-respectable names, forming a committee for carrying out the objects in view:-

Alex. Alliott, Esq., Lenton Works
C. D. Archibald, Esq., F. R. S., F. G. S.
P. Claussen, Esq., London and Manchester
Robert Davison, Esq., C.E.,
Wm. Fairbairn, Esq., C.E., F.R.S.
Joseph Gibbs, Esq., C.E.
H. H. Henson, Esq., North Western Rail.

W:—
Sir Francis C. Knowles, Bart.
Henry Lund, Esq., M.A., Temple
Robert Flummer, Esq., Newastie
Charles Fownall, Esq., Kensington
J. C. Robertson, Esq., C.E.
James Rock, Jun, Esq., Hastings
Jas. Thomson, Esq., C.E., Glasgow

The objects of this association are to promote, by the diffusion of information, by legislative measures and otherwise, the following reforms :-

The simplification and consolidation of the proceedings for obtaining patents.

The reduction of the expenses within safe and moderate limits.

An improved system of enrolment.

The readier verification of patented productions, and more summary redress for in ringements.

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In the development of these objects, although the precise scheme of reform is reserved for further consideration and discussion, it is proposed under the first head to abrogate the whole of the present proceedings, ge-nerally admitted to be unnecessarily complex and multifarious, and to substitute in lieu thereof one single official act of the nature of an entry substitute in lieu thereof one single official act of the nature of an entry or record of the patent right, precisely similar to the entry of a literary copyright at Stationers' Hall. The practice of requiring separate patents for England, Ireland, and Scotland to be abolished, and one patent to suffice for the whole British Empire, including the Colonies and the East Indies, if practicable, which are not at present covered by patent. This patent to be granted on the inventor filing a specification of his invention, under his hand and seal, with a declaration that, to the best of his knowpatent to be granted on the inventor filing a specification of his invention, under his hand and seal, with a declaration that, to the best of his knowledge and belief, the invention is new and useful, and he is the first and true inventor. Consequent on this change would be the abolition of the practice of allowing six months after the date of the patent to specify—a practice which exists in no other country but England, and is a notorious source of fraud and inconvenience. Every person applying for a patent, and lodging the specification and declaration required, to be at once entitled to the patent, but always at his own risk—that is to say, subject to its after impeachment, in due course of law, on any of the three grounds—want of novelty, want of utility, and want of title. This is the practice now followed in France, and it is found to work well; also in Holland, Austria, and Spain. Instead of the present cost for the three patents for England, Ireland, and Scotland, 3204, which if the colonies are included amounts to 4304, it is proposed that one patent for the whole empire should cost, in lieu of all other charges, 1001. This sum would be sufficient to exercise due caution, without being prohibitory or oppressive. It is proposed that the Lords of the Privy Council retain the power they possess under the 7 and 8 Vic., c. 69, of renewing letters patent for any term not exceeding 14 years; but no sum to be payable on renewal, other than the fees attending the process.

According to calculations which have been made, and are in course of careful verification, the revenue from patents under this new system would be so much in excess of what they now produce, as to furnish an ample surplus fund, for the indemnification of all parties who may have vested interests in the fees arising from the forms proposed to be abolished under object first. An improved system of enrolment is also proposed—the specification to be printed instead of written, and the diagrams engraved; and the patentee to lodge with the signed

cification to be printed instead of written, and the diagrams engraved; and the patentee to lodge with the signed and sealed specification 475 copies of it—20 to be sent to public libraries, 385 to parliamentary boroughs, 55 to the capitals of British colonies, and 15 to foreign Governments; and this without one shilling additional expense to the patentee, for it is capable of proof that the entire expense to which a patentee would thus be put for engraving and printing (including a reasonable fee—say, one or two gaineas—to be paid to the keeper of the Inrolment-office, for the trouble of himself and clerks) would not, on the average, exceed more than what he pays for specifying under the present most defective and unsatisfactory system. It is further suggested that all articles manufactured under patent to have conspicuously marked thereon, where practicable, the word "patent," date, and name of patentee. Penalty for default—forfeiture of patent right. Actions for infringement to be brought in the County Courts of England, Sheriffs' Courts in Scotland, and Civil Bill Courts in Ireland. ourts in Ireland.

Courts in Ireland.

These proposed alterations and improvements are founded on just and fair principles, and are much in spirit in accordance with what has been advocated in our columns for several years past. The greater confidence inspired by these regulations, and the reduction of cost, would greatly increase the number of legitimate patents, and, in some measure, secure to the poor inventor those rights which, under existing practice, it is impossible he can obtain.

Die ne can obtain.

A subscription of one guinea constitutes any person—being a patentee
r proprietor of patent property—a member of this association, with right
p participate in all its proceedings, and to copies of its periodical reports.

Since writing the foregoing remarks, we have received from Mr. H. LUND, M.A., of the Temple, an outline of the proposed bill, and the following is an epitome of its provisions:—

Owing 18 an epitome of its provisions:—

1. That an office for registration of inventions be appointed.

2. That every invention, now patentable, be registrable at this office, upon deposit of an unit of some patentable, and the payment of 50%; the full specification to be filed three months atter, by the deposit of a certain number of printed copies, with explanatory engravings thereof—one copy to be distributed to every city, borough, or large town, to the capital for each colony, and to each foreign state. The inventor having complied with this, will have a patent right for seven years, without further charge or difficulty.

3. Specifications are to be classified and indexed.

4. Titles of registration to be published in the Gazette, and opposition to be allowed between prior and subsequent applicants. The 50% to be returned to the rejected applicant.

5. Upon payment of 30%, the inventor to obtain seven years additional, and 20% for a urther term of seven years.

oven years, is to be cancelled upon a direct proceeding, by order of a superior court, 7. Pr

7. Frecedings for infringement to be in the county courts for England, and the local courts of Scotland and Ireland.

8. Assignments, licenses, &c., to be registered.

9. A report from the Patent-office to be laid before Parliament every year, &c.

10. In conducting the proceedings to cancel a registration, competent assessors, with or without a jury, are to be employed.

## NEW PATENT LAW FOR BELGIUM.

The patent law reform movement, it appears, is not to be confined to the British islands, it being proposed to alter the Belgian law of patents. A draft the islaw has been forwarded us, which, as it may, at the present time, be interesting and instructive to our patent reformers, we now lay before our readers its principal distinctive features:—

its principal distinctive features:—

1. Patents of inventions to be assimilated to all other kinds of property—enjoy the same rights, and support the same charges, &c.

2. Any one who wishes to obtain a patent must deposit, in a close sealed packet, such a specification, &c., as shall comply with the law, with the registrar of the province, or, if a streight country, with the diplomatic or consular agant. Before the application and deposit can be received, the patentes must pay to the public treasury the sum of 10 francs. Upon receive of this deposit, the receiver is to note on the cover, and give an official certificate, as to the day and hour thereof. During six months after the date of the deposit, the patentee may make such changes, additions, and retrenchments, as ha shall judge proper, provided that the subject-principal of the patent must remain the same. The legal date will be that noted on the deposit, and signified in the certificate thereof. All deposits must be transmitted to the Home-office, to be opened every six months.

patentes shall be able to renounce the beneft of the six months' secrecy, and demand immediate publication. Every week the titles and dates, &c., of patents of inventions applied for shall be published in an official gazette.

3. The applications for patents, deposited as before stated, being delivered to the patent department at the Home-office, shall at the appointed time be opened by the proper officer; and if in due form, must be forthwith published in the Gezelle, the patentees paying for the same at a fixed price—50 copies are to be set saide for the patentee for his licensees, &c. If the application is not in due form, or contra bonos mores, the officer may refuse to entertain the application in that form; but should the application for the specification, &c., any person may oppose the concession of the patent for just cause. Opposition may also be made by the Minjster of the Interior. The opposition is to be heard and determined finally by the Council of Prudhommes.

4. Patents, when fully made out, are not to be annulled for insufficient specification, &c., but only for non-compliance with the law on part of patentee.

5. The tax on patents is fixed at 10 france, paid down, for the first year; 20 francs for the second, and so on increasing 10 france each year, until the surrender of the patent. Every assignee and licensee must pay the same tax as the patentee, and either will surrender their rights by not doing so. The Government has power to remit all, or part, of the tax in certain cases.

6. The devent and transfer of never the patent.

the tax in certain cases.

6. The descent and transfer of patent property is to be regulated by the ordinary law, except that every change of ownership must be gazetted.

7. The invention must be put into work within two years, and must not be suspended.

7. The invention must be put into work within two years, and must not be suspended for three years together.

8. Piracy and infringement are to be submitted to the Council of Prudhommes, who will, if the infringer appeared to be actuated by good faith, endeavour to amicably arrange between the parties; and if this cannot be effected, will cause sufficient reparation to be made; but if the infringer appeared not to be so actuated, damages will be awarded, and the confiscation of all the piratical articles, &c.; and this judgment is to be publicly notified. This judgment may be appealed against to the ordinary court of appeal.

9. Patents of importation, which will remain in force 25 years.

10. Patents for reviving or carrying out inventions.

12. Patents for reviving or carrying out inventions.

13. Patents granted under the old law may, within the date of one year, be brought under the operation of the new law, at the election of the patentee. Old patents may be revived under certain circumstances. Patents now passing may also be brought under the new law. The nature of patentable invention is determined, and penalties are imposed for not marking every article as patent which is patented, and the fraudulent use thereof on articles not patented.

#### THE MONKWEARMOUTH COLLIERY.

THE MONKWEARMOUTH COLLIERY.

In our last Journal we briefly alluded to the fact of the guardians of the poor of the Sunderland Union having represented the "pit heap" of waste coal at this colliery to be a nuisance to the inhabitants of the locality, and that steps were being taken by the authorities to compel its removal. If this removal is insisted upon at the sole expense of the owners, the cost will be enormous, and will raise the question whether it will not be the more profitable plan to suspend the workings altogether. As 1700 tons of coals are now raised daily, the continuous additions to the waste must be considerable; and we are only surprised that some arrangements have not been made, or means discovered of avoiding the pit heap nuisance at collieries generally, as spontaneous combustion ensues, and the nuisance even at a distance, in the direction of the wind must be intolerable. The establishment of a manufactory of some of the best patent fuels near a large colliery would, probably, consume all the waste, and at once abate the nuisance; at all events, it appears invidious to have selected the Monkwearmouth Colliery for this nuisance-abating experiment, and leaving all the others in the Union unnoticed. Considerable time should be given to enable the owners to adopt the best and most economic measures, more particularly as they have already, at very great expense, tried every known means without effect. The Monkwearmouth Colliery is the most interesting in the kingdom, perhaps in the world, as an evidence of the correctness and value of geological science. Its position is four miles beyond the eastern margin of the coal-field, and close to the sea at the mouth of the River Wear. Previous to the commencement of sinking, and for years during its progress, absolute failure was foretold by nearly all the coal viewers of the north; but, guided by the light of geological data, and convinced that the Bensham and Hutton seams dupped in that direction, in May, 1826, the shaft was commenced by the owners, 12

#### STAFFORDSHIRE COPPER MINES.

STAFFORDSHIRE COPPER MINES.

An action of trespass has been recently brought by the Rilage Mining Company, against the New York Mining Company, under the following circumstances:—These two companies are in Staffordshire, and their mines adjoin each other, and are only a few miles distant from the far-famed Ecton Mine. The complaint of the Rilage Company was that the New York Company had, in the month of May last, entered the boundary of the former, and in the face of notice had taken ore to the value of 1001. To save expenses, the matter in dispute was referred to the arbitration of Messrs. Thomas Maddock, of Hanley, Staffordshire, mining surveyor; and Mr. George Knox, of Fenton, Staffordshire, mining surveyor, as umpire. The arbitration meetings were held on the 7th and 14th November last; Messrs. Cooper and Co., of Congleton, were solicitors for the plaintiffs, and Messrs. Challinor and Co., of Leek, for the defendants. The fact of the trespass being committed, was proved by the evidence of several witnesses, and that it was within plaintiffs' boundary, and that the ore taken was worth from 80. to 1002, the average value of copper from the Rilage Mine, being from 81. to 181. per ton, deducting therefrom return charges. The answer of the defendant to the plaintiffs' case was, that no trespass had been committed; they conceded they had gone 2 feet within the Rilage Mine, if the wall on the surface, separating the two estates, was the boundary, under as well as above ground; but they contended that it was not the underground boundary, but that certain pieces of timber affixed underground were. The defendants also alleged that plaintiffs had acquiesced in the trespass, and lastly, that assuming the trespass to have been committed, the ore taken was not worth more than 62. per ton, out of which return charges must be deducted; and one witness swore that none of the copper from the New York Mine was worth more than 52. per ton, out of which return charges must be deducted; and one witness swore that none of the cop

the New York Company, as well as all the expenses.

CLEVELAND IRONSTONE WORKS.—The opening of the newly-discovered beds of ironstone at Estor, in the county of York, and of a new branch line of railway to the works from the Middlesborough and Redear line, took place on Monday week. A special train was provided for the occasion, attended by a brass band, consisting of musical workmen of Messrs. Bolckow and Vaughan, the proprietors. The company proceeded in this train about two miles from the trunk line, when they arrived at the foot of the incline leading up to the works, which are quarried at a height of 400 ft. above the sea level. The incline is 1000 yards in length, divided by a break into two lengths of 400 and 600 yards respectively, down which the loaded waggons rush at a fearful rate, drawing up the empty ones by iron wire ropes and pulleys. Having witnessed the ascent and descent of some half dozen of these waggon trains, the parties descended, much pleased with the morning's adventure. About 50 gentlemen sat down to a sumptuous repast at the Globe Inn, provided by Messrs. Bolckow and Vaughan, at which the greatest harmony prevailed, and among the opinions expressed in the various speeches made, Mr. Bolckow, in describing the advantages likely to result from the discovery, said, he looked forward to the time when Middlesborough would become a second Birmingham, and other speakers supported such a prospect. The deposit of ironstone in Cleveland was first discovered a few years ago, and has been worked near Huncliff about two years, but from the expenses of beach, loading, and coasting freight, it has not proved of much advantage. From the position of the strata, Messrs. Bolckow and Vaughan, and experienced engineers, believed that the seam would be found in the neighbourhood of Eston, and a few months since the latter gentleman, with Mr. Marly, their agent, were exploring the hills, when examining a rabbit burrow, the ironstone was found 18 in from surface. The ore is of first rate quality, its minimum y

Mr. Charles Egan, the Chancery barrister, and author of the Status of the Jews in England, is, we understand, writing a work on the antiquity and preeminence of the prerogative of the Crown of England in ecclesiastical matters. 
Irrespective of the interest arising from the late Papal aggression, we are pleased to find a recondite writer taking up this neglected, but important, theme, as a good book on the Royal prerogative is much required; for, atrange to say, we have but one work written expressly on the subject in modern times (viz., Allen's), and that was published many years since.

#### Original Correspondence.

AN IMPENDING EXPLOSION-JARROW COLLIERY.

SIR,-The efforts of men of science and humanity, nobly sustained by the Legislature and the press, have, within the last few years, induced great and beneficial changes in the working of mines; and the last legislative Act, in the appointment of mine inspectors, points to a future that will elevate the mining interest of Britain to a position becoming its national importance. Whatever stands in the way of the full and free operation of that judicious, though incomplete measure, if the Act itself contains no power to remove it, it is proper it should have applied to it the subduing influence of an enlightened public opinion.

Act, in the appointment of mine inspectors, pourse so a status was was was a value elevate the mining interest of Britain to a position becoming its national importance. Whatever stands in the way of the full and free operation of that judicious, though incomplete measure, if this Act itself centains no power to remove it. It is proper it should have applied to it the subduing influence of an enlightened in the mortune of the property of such an obstruction, shads a present the noticeus. Jarvave Colliery! and, while so placed, it is preparing a fresh sacrifice of human beings, to add another dark page to its bloody annuals. That this is but to true, its history, is present condition, and legitimate deduction, as we shall see, loo clearly dimensionals. It is explosions occur, on an average, once in most four years. The last was in Angust, 1846, in which 40 miners perished so miserably—some burnt to death in its flash, eithers illerally shattered to pieces against the sides of the saine, and the rar poisoned in the waste of the saine, and the rar poisoned in the When I show the present condition of this mine, its mode of working, and the unasually dangerous processes to which it is subjected, the surprise will be that the carastrophe has not already arrived. Upwards of eight years ago the atmost ventilation in the main passage was little more than 3 ft. pre second, which docked Astinia Report, p. 34.1 It may be imagined what it is now, with eight years' workings, and the low-main seam additional, with no additional means to ventilate it.

At that period, three years belove the last accident, it frough these estended passages, where gas cooses at every pore, should become surcharged and explosive, is a physical consequence as clear as a mathematical demonstration. In such a system there is everything to encourage the production of an explosive mixture, and to prepare thing to encourage the production of an explosive mixture, and the present shall be accessed to the shall be accessed to the shall be accessed to the

The men, much alarmed, before the appointment of inspectors upon the 13th Nov., memorialised the Home Secretary, argently praying his immediate attention to "the great danger to which they were exposed by their master introducing powder as a means of blasting coal in a pit so notoriously ill-ventilated as Jarrow." These are their own words, from their own document, and no better course could be adopted than by throwing themselves, in the emergency, upon the protection of Government. The charges against the men risking the lives of themselves and fellow-workmen by recklessness does not hold good here, at any rate, and probably in most other cases; but the silence of the grave is not easily broken.

Sir George Grey, it appears, had immediately on the appointment of the northern inspector of mines referred the workmen's memorial to him, for we find him at Jarrow on the 29th Nov., accompanied by some of the men and the viewer, examining the condition of the mine. The nature of his opinions and suggestions, of which copies I understand were given to both masters and men, may be learnt from another memorial to the ifome Secretary, which is expressed so well, and breathes such just and proper sentiments, that I cannot do better than leave this part of the case in their own hands.

"At a meeting of a large number of the worken of Jarrow Colliery, held on Tuesday."

Secretary, which is expressed so well, and breathes such just and proper sentiments, that I cannot do better than leave this part of the case in their own hands.

"At a meeting of a large number of the workmen of Jarrow Colliery, held on Tuesday, December 17, I was requested to forward to you the following details regarding the safe working of the pit, and the continuance of the process of blasting the cal, as before complained of to you. The workmen are desirous to express their gratitude to you for the prompt attention in directing the inspector of mines for this district to examine into the causes of such complaint, and they beg to intimate that they were highly satisfied with the attention that inspector gave to the ease, the result being a confirmation of the justness of such complaint, attended with kindly suggestions for removing the cause thereof, but which suggestions they regret to observe have not been attended to, nor has the practice of blasting the coal been discontinued, the master refusing to order the said practice to be laid off. Under these untoward circumstances, they feel themselves necessitated to appeal to you, trusting that something will be done to induce their employer to take some steps, either to increase the quantity of air, or to case blasting the coal whilst the current of air is so weak as it is at present. They desire also to state that they have appealed to their employer on the subject, but he refuses to adopt any such the whole of the workmen who thought themselves in danger might leave the colliery, thus leaving them no alternative but either to risk their lives or to allow their families to want bread, the depressed state of the coal trade rendering it next to impossible for them to botain employment elsewhere. They would, therefore, humbly intreat (seeing the pit is subject to studen irruptions of gas, commonly termed blowers, one of which, only a few days ago, was ignited by the firing of a shot, and created considerable alarm among them, but which, happly being of small

"The following are the names of the workmen who guarantee the above statements, but whose names are forwarded in confidence, seeing the individual who wrote the last letter to you has been discharged from his employment at the colliery."

The Home Secretary, true to his duty, it appears had sent further instructions to the inspector on the subject, and again we find him at the colliery on the 30th December, investigating the case; and a day or two after the following report, found in the hands of the owners and workmen, each having received a copy, enables us to give it entire.

the owners and workmen, each having received a copy, enables us to give it entire.

"Neucoatile, Dec. 31.—Having yesterday again visited the east workings of the coiliery. I have to observe, in reference to my former report, as follows:—1. That the quantity of air passing into the coiliery is considerably increased by sundry measures.—2. That the doubling of the cross-cut doors is incomplete, inasmuch as one of the doors is only a swing door, instead of a frame door.—3. But, notwithstanding the increase of air, upen viewing the continual extension and change of circumstances in these workings, the universal system of brattcing, and the number of swing doors, together with the acknowledged necessity of working entirely with safety lamps, I am bound to declare against giving my sanction to the practice of firing shots with candles, even under the discretion of the overman and deputies, in a seam 6 ft. high, and so liable to sudden discharges of minammable gas."—Signed by the Inspector.

The increase of air named in the first article is only a portion drawn from another part

nflammable gas."—Signed by the Inspector.

The increase of air named in the first article is only a portion drawn from another part of the mine, and ant to this point of greatest danger, or rather immediate alarm, weakening that other part. There is no means, and no increased power has been attempted to be applied for ventilation—the mine remaints exactly as it has ever been in that sespect. And I know that the entire air consists of little more than 7000 cubic feet per minute, split and divided amongst about 16 working boards, giving in them an imperceptible breathing of air—not a mile an hour.

Let us look across the Tyne, nearly opposite, and there we find another miss in a widely different condition, with three downcests and three upcasts, pouring upwards of 130,000 cubic feet of air per minute through the working of only 10 or 12 boards, in the same Bensham seam, and with 122,000 cubic feet per minute, three times that of Jarrow, with fewer workings, the able and conscisions.

viewer of Wall's-End, the whole trade knows, will not allow a shot to be fired, or a candie to go within a mile of such workings.

After the official opinion of the inspector, the interference of the Government, the expressed alarms of the men, the acknowledged danger of the mine, the undeviating practice (the necessary practice, I will call it) amongst the northern mines, of where lamps are, no naked light shall come, it is impossible to view this extraordinary attempt to place this desperate mine in a desperate position, without a feeling of deep anxiety, approaching almost to horror. I am told that an effort is being made to procure the opinions of two or three indifferent viewers to sustain the Jarrow viewer in his fearfal responsibility, notwithstanding the strong circumstances of the case, and the marked opinion of the inspector, as well as others, herein detailed. In case of the act of the Jarrow viewer has preparators?

If any viewer is allowed at his pleasure to precipitate British subjects to destruction, to take the exact course to produce it, to set aside the repeated warnings of experiences and clear consequences, to dely the officers of Government appointed to protect the miners and the mines, and repudiate the opinions and practice of experienced viewers, then farewell to Davy lamps, inspectors, and all appliances of afety.

If one viewer may so act, so may all, and British mining, instead of advancing in safety and in science, will again retrograde, under such asspices, into a state of barbarism. This faint description of the condition of things here, will, I carnestly hope, be in time to add in arresting, what I cannot but conceive, an impending caiamity.

January 15.

#### THE DURHAM COUNTY COAL COMPANY.

THE DURHAM COUNTY COAL COMPANY.

Sir.—A constant reader of your paper, and an adventurer in the Durham County Coal Company, residing at a distance from the speculative city of York, requests the favour of your assistance in obtaining the following information:—1. Is it likely that any part of the wreck of this unfortunate concern will be saved?—2. Can you inform me if the remains of the property is transferred, and to whom?—3. Can the Winding-up Act be economically and beneficially applied to enforce a fair statement from the directors of the accounts, in order to satisfy the shareholders that they have lost their money by fair dealing?

We are continually apprised of the sales of stock and of collieries, without being favoured with an account of how the receipts have been applied, or the description of security, if any, for the transfer of Coxhoe Colliery. We are also amused to hear of the bullying and subterfuge of the chairman, when called upon to give explanations. His replies are always cautious and mystified. The transactions may be well understood by the generality of his friends, who are in the habit of attending the general meetings (prepared for a show of hands); but there are others of the subscribers, at a distance from this celebrated "city of gamblers," who are extremely dissatisfied with the information conveyed in the reports.

The writer of this article feels called upon to appeal to you, in consequence of a risk heaven in an old Lordon paper, headed "Humpheyer.

bers, at a distance from this celebrated "city or gamblers," who are extremely dissatisfied with the information conveyed in the reports.

The writer of this article feels called upon to appeal to you, in consequence of a trial he met with in an old London paper, headed "Humphreys v. Brogden." The case was tried at Durham about 12 months ago, and decided against the defendant, who was the manager for the Durham County Coal Company, and now secretary for winding-up the concern. He thought proper to move for a new trial in a higher court. The defendant is again nonsuited, and, therefore, threatens to renew the action. The directors have already mismanaged the affairs of the company to a great extent, by making large sacrifices in favour of railways and jointstock banks, in which they hold shares. How far the shareholders will permit their property to be further plundered, I am at a loss to know. It is said that Humphreys would have been satisfied with 201 at first for the damage sustained by his farm; but the secretary thought 151 was enough. The directors being, therefore, confident of the immaculate judgment of their secretary, allowed the affair to be taken into court. Now it is stated the company has been fleeced to the extent of 5001 before they got out of this dilemma. The probability is that, instead of 51, per share being left, the shareholders will be called upon again to make up a deficiency, more especially if the chairman adopts the architectural scale of charges of 7½ per cent. upon the expenditure. We may, then, bid adieu to our promised dividend.—R. H. J.: January 13.

#### ATMOSPHERIC INFLUENCES.

SIR,-Having shown that Professor Faraday's professed discovery of the magnetic condition of oxygen, and that the gas lost this property, in proportion to its increase of temperature, was a complete confirmation of the portion to its increase of temperature, was a complete confirmation of the soundness of the groundwork of the system in natural philosophy, I have ventured to submit to public consideration, being, as it is, an admission that electricity is identified with cold and not with heat; in continuation of my letter of the 21st December last, I am induced to offer a few further remarks in reference to this highly interesting lecture, and I think I shall be able to show that the professor has approved not only of the foundation, but the columns of the edifice have likewise received his approbation; that, in fact, he has declared the whole structure to be worthy the consideration of the reflecting portion of mankind.

In a paper which I submitted to the consideration of the Board of Health in 1848, "On the Electrical Condition of the Human Frame, in reference to Epidemic and other Diseases," and which is published in Newton's Journal of Arts for March, 1849, after detailing certain experiments connected with crytallisation, I observe—

nected with crytallisation, I observe—

The above and other facts afford unquestionable evidence that electricity, which is evolved during fite disintegration of matter, is identified with cold and not with heat and on reference to "electrical condition" it will be observed, that the same evidence he brought me to the conclusion that electricity is the bond of union in matter; and the as bodies attract each other in proportion to their difference of electrical condition, that attraction of matter to the earth's centre (the extreme of negative electrical condition. \* \* Weight then, should be nothing more than a kind of indication of the electric force by which a positive-electric body is drawn to the negative centre of, the earth; and, as matter in creases in electrical condition in proportion to its density, it follows, as a natural inference that matter, by compression or contraction, should increase the electrical condition, and therefore, in weight.

In No. 12 of the papers by "S.," published in the Mining Journal of 1849, reference is made to this conclusion, and certain facts are adduced in its support; and Prof. Faraday, at the close of the year 1850, announces to the world his startling discovery, that he " had of late, by means of a peculiar differential tension balance, ascertained that as the oxygen was dense cutar differential tension balance, ascerdance that is the oxygen was eense or rare, it gained or lost, for a given volume, proportionably of its magnetic power;" a property in matter, as will be seen above, that has enabled the moneyers at the Mint to pocket about 15,000% a year as "emoluments," but which, in consequence of the information I afforded to Sir Richard Lalor Shiel in March, 1849, will for the future pass into the public

The law then being admitted, that matter increases in electrical condi tion by compression, and it being allowed of late by Sir John Herschel, that the Newtonian hypothesis is no longer tenable, but that we must look that the Newtonian hypothesis is no longer tenable, but that we must look to electricity as the cause of gravitation, I presume either as attraction from below, or repulsion from above, there can be no deficiency of material on which to speculate for some little time to come, the more especially as it is far from improbable that the professor, or some other equally eminent member of the scientific world, may venture on making some further discovery connected with these important principles, I hope I shall not be deemed rash in hazarding to submit for the consideration of others, including the Royal Geological Society, who declined the consideration of my papers, the peculiar views which these principles have suggested to my mind in reference to remote ages, and to the future; there being, however, two facts which I think "S." did not adduce in support of these principles, I may as well refer to them on the present occasion. ples, I may as well refer to them on the present occasion.

In August, 1845, being desirous of putting to the test of experiment my

principles of heat, I sought assistance at the hands of the directors of the Polytechnic Institution, and in my communication to them I observe—

You are, of course, aware that the electric spark will cause the combination of hydrogen and oxygen, that flame absorbs electricity, and that during the condensation of squan generated in your hydro-electrical machine, great quantities of electric fluid fly to the boiler. \* \* It is clear, then, that electricity is absorbed during the condensation of squan of vapour, and we know that water contains it in great quantities; and as electricity is absorbed largely during the formation of water and of carbonic acid, it appears to me evident that instead of what is commonly called heat, or caloric, being imparted to the water during the formation of vapour, that electricity must be abstracted from the water, and that the steam is the natural consequence of the water being deprived of a portion of its electricity, or of the power that holds its atoms together.

The directors having most liberally placed at my disposal their apparatus, assisted by Dr. Bachhoffner, the able lecturer of that institution, ratus, assisted by Dr. Bachhoffner, the able lecturer of that institution, I performed various experiments, which finally terminated in convincing me of my error, as regarded the electrical condition of high-pressure steam; but satisfied at the same time of the correctness of the principles on which that opinion was based, to discover the cause of high-pressure steam being positively electric, induced in my mind a train of thought which laid the foundation of the principles embodied in my paper to the Board of Health, already referred to; and the following experiment will show that pressure is not necessary to impart to vapour this highly-elastic property.

If a Florence flask be partly filled with hot water, to the extent that violent ebullition may be induced without any of the water boiling out of the flask, and during the obullition a bit of alum be dropped into it, a large quantity of the water will be blown out, immediately the salt reaches the bottom of the flask, where the steam is generated. The alum, during decrystallisation, yields free electricity, which, being absorbed by the nascent

vapour, imparts to it elastic properties: the vapour, in fact, is under the influence of two opposite electrical conditions, corresponding, "as it nfluence of two opposite electrical conditions, corresponding, "as it rere," to the poles of a galvanic battery, which resolve water into its elementary gases.

Franklin Coxworthy,
Canterbury-place, Lambeth-road, Jan. 6.

Author of Electrical Condition.

mentary gases.
Canterbury-place, Lambeth-road, Jan. 6. ON THE CONDUCTION OF HEAT IN BLAST-FURNACES.

Sin,-In your last Number, I read an interesting article on the employment of quickline as a flux in blast-furnaces. I have long advocated this useful "reform;" but the suggestion was called "theoretical," which, with Prof. Karsten's unsupported dictum, was considered as decisive; but the "theory" is now matter of fact. This improvement has another practical recommendation not noticed—namely, that the cementation of the ore in quicklime will take up its sulphur, if any, which limestone cannot do. The experiments of Prof. Playfair and Bunsen,\* prove that the whole of the oxygen of the blast passes into carbonic oxide at or near the tuyéres. If this be fact, it follows incontestably that the whole of the heat in the If this be fact, it follows incontestably that the whole of the heat in the higher regions of the furnace is heat produced by conduction from below and from the heated gases in their passage, and not by combustion above. It is like the heat given out by one end of a bar of iron, while the other end is in the fire. This is a most important fact in our consideration of the working of blast-furnaces. It points out to us that all causes tending to affect the uniformity of the temperature at any given point within the furnace—such as ore or fuel containing moisture, ore containing carbonic acid, raw limestone, &c.—should be sedulously avoided. Even the use of raw coal may, in this point of view, be of doubtful utility. But there cannot be a doubt that the daily introduction of several tons of solid carbonic acid, in masses scattered at irregular intervals through the furnace, must greatly derange the uniformity of its temperature, and, therefore, that of its working, while the gas is taking up its latent heat in passing into the aeriform state. It may, at first sight, appear that the solid oxygen of the ore should produce similar effects; but here a sort of compensation takes place (as appears from Profs. Playlair and Bunsen's report) through takes place (as appears from Profs. Playfair and Bunsen's report) through the combination of the carbon, or carbonic oxide, with this oxygen, which combination evolves heat enough to become the required latent heat of combination evolves heat enough to become the required latent heat of the resulting gas. This fact of conduction, assuming it to be established, will enable us to test the process of "tapping" the furnace (it matters not how), in order to obtain its gases for fuel. These gases are driven up from below intensely heated; and they heat in their passage the whole mass of materials in the furnace up to its throat. If they be withdrawn from a point even a few feet below this, their heat is lost exactly when it is of most importance to obtain its full effect—viz., heating the fresh and cold charges, and driving off moisture, &c., from the ores and the fuel. This consideration would seem to be decisive; and, therefore, if we are to use the furnace gases, it should be after they have performed their function and quitted the furnace. It remains to be seen whether this fact of tion and quitted the furnace. It remains to be seen whether this fact of conduction, if sufficiently established, will not lead to other important conclusions as to the form of the interior of the furnace, the mode of charging it, &c.—Francis C. Knowles: London, Jan. 10.

\* Reports of British Association. Cambridge: 1836.

#### THE COPPER TRADE.

SIR,-Though much has been said in the columns of your Journal on this subject, yet so great a revolution is taking place in this trade as to justify a few remarks, ere the English copper trade is reduced to very little importance, in comparison to the copper produce of other countries. The reduction, I might almost say the repeal, of the duties on copper and copper ore in 1848, has produced the effect which many persons anticipated which was, a greatly increased importation of the metal. This is proved which was, a greatly increased importation of the metal. This is proved by the fact, that there were no less than 1749 tons of copper, besides 9200l, worth of copper manufactures imported in the year ending Jan. 5, 1849, while in the previous year the importation was only 1017 tons, and 4351l, worth of copper manufactures. In the year ending Jan. 5, 1850, the imports of copper were 2836 tons, besides copper manufactures, valued at 25,338l. The imports for last year are not yet made public; but, judging from the imports for the 11 months ending Dec. 5, 1850, which were 4238 tons, we shall not be far wrong in estimating them at 4500 tons of copper.

In turning from this formidable increase in foreign copper to the exports of other countries, we find that there were exported from South Australia 700 tons in the half-year ending 30th of last June; while in the same period of 1842 there were only 35 tons, the increase being 2000 per cent. From Chili also the increase has been very great, that country having exported 9000 tons in 1849, and only 2267 tons in 1839. If these

having exported 9000 tons in 1849, and only 2267 tons in 1839. If these facts be contrasted with the copper trade of Cornwall, there is at once seen a lamentable difference, since the production of copper ore in the year ending 30th June, 1839, was 159,214 tons, of the value of 932,0904, but in the year ending 30th June, 1849, there were only 144,983 tons, of the value of 717,917.—a falling off of 214,1737.

This corpusors decrease can surprise no one who is acquainted with the

This enormous decrease can surprise no one who is acquainted with the wasteful manner by which the Cornish ores are smelted, and with the neg-lect of the vast natural resources of the county. The unfortunate sinking wastern mariner by white County. The unfortunate sinking in Devon and Cornwall of upwards of 2,000,000/. in railways, which have in Devon and Cornwall of upwards of 2,000,000. In Fairways, which nave not yielded from traffic a farthing of dividend, is a sad incubus, and is likely to lead to consequences that all must deplore. I have only to add that foreigners are not neglecting opportunities in copper smelting, which, in all human probability, would never have been neglected in Devon and Cornwall, but for the ruinous speculations of those counties in railways.

Jan. 16.

WILLIAM BIRKMYRE.

#### UPCAST SHAFTS.

UPCAST SHAFTS.

Sir,—I perceive that "Steam" has been puffing over my letters, which "J. J. A." controverted last September, until he cannot discern which of us is which. This is not surprising. "Steam" has always been a blustering misty-headed genius, when not "groping' in the dark, wandering in clouds, and wrapping in obscurity whatever he approached—a blind maniac, useless and mischievous, except when led, commanded, and confined. The engineer at Blaenavon should look to his valves when the waste steam is getting to London. He should recollect, when he blows off three propositions, that they cannot be seen through without the aid of a condenser.—David Musher: January 8.

#### COOKING BY GAS.

COUNTING BY GAS.

There is certainly economy in the employment of scientific principles elicited by genius and art. I was extremely pleased in witnessing, a short time ago, the very ingenious apparatus constructed and invented by Mr. Sharp, the skilful superintendent of the Southampton Gas-Works, by Mr. Sharp, the skilful superintendent of the Southampton Gas-Works, for cooking by gas. It is at once cleanly and economical, and very compact, and, I may add, elegant. Mr. Sharp engaged to cook a supper for one hundred persons connected with the Southampton Polytechnic Institution for sevenpence, and effected his purpose! The only counteracting influence I should fear would be the impurity of the gas employed; but the gas of the Southampton Gas-Works, under the judicious management of Mr. Sharp, is remarkably pure.

Broadstone, Stranraer, Jan. 6.

#### MR. MAGNUS'S ENAMELLED SLATE.

SIR,-When last in London, I was extremely gratified by a visit to Mr. Magnus's very interesting Enamelled Slate Works at Pimlico. The exceeding beauty of these ingenious, chaste, and elegant specimens of art and science struck me with surprise. I had read and heard of them; but "the half was not told me." Lucculite, Egyptian, and Lumachella marbles, jasper, porphyry, brocatella, lapis lazuli, &c., are imitated with amazing fidelity; and the extreme durability of the enamelled slate seems indistribly. There these heavilght protories were made the Royal Albert putable. From these beautiful materials were made the Royal Albert table for Osborne House, at a cost of 300 gaineas, and a billiard table for the Duke of Wellington, price 170 guineas.

J. Murray. Jan. 6.

#### APHLOGISTIC EFFECT OF ACETATE OF COPPER.

APHLOGISTIC EFFECT OF ACETATE OF COPPER.

Sir.,—There is a phenomenon recognised by chemists under the name aphlogiston—ignition unaccompanied by flame, and exemplified when an ignited coil of platinum wire is immersed in the vapour of sulphuric ether, or a ball of spongy platinum overtops the spirit lamp. Thus a green wax taper, when simply blown out, will continue to the end to smoulder away like "touchwood," and may eventually set fire to any thing it may happen to be in contact with. If a very "slow match" were wanted, acetate of copper might be advantageously employed.

The following is a very singular example:—A tallow candle was dyed green with acetate of copper, and was used for a bed-room. It was simply blown out, and was found in the morning still smouldering away. The

heat was insufficient to melt the entire tallow; and it thus formed a deep well in the centre. The act of combustion continued in all twenty-four hours! What a poisonous atmosphere for a bed-room! J. MURRAY.

DAVY'S SAFETY-LAMP.

-Every one who has studied and made experiments with Davy's safety-lamp, is quite aware that the safety is only conditional or contin-gent, and not absolute. There is no enigma. The flame may be easily impelled through the wire meshes, whether by a current of air traversing impelled through the wire meshes, whether by a current of air traversing the mine, or in the case of the safety-lamp in its transitthrough a "blower." Obviate the causes; surround the wire gauze with a concentric cylinder of "Muscovy glass," and its safety is secure. I should with this simple provision esteem the "Davy lamp" superior to all others. Again and again have I insisted on this necessary provision to ensure its safety. A narrow ring of unprotected gauze below the transparent screen of mica will admit the required supply of air; and air will also descend from above. Nothing can atone, or be a substitute, for imperfect or neglected ventilation. That is the chief—the paramount thing. The safety-lamp is merely auxiliary, occasionally required for exploration—the test of safety—an indicator of perfect or imperfect ventilation. J. MURRAY. Broadstone, Stranraer, Jan. 13.

An Iron Church.—At this time, when the construction of the Great Exhibition Building, and of iron structures in general, is occupying all minds, it may not be deemed improper to draw attention to a successful effort in the same direction made 10 years ago; we allude to the Bowling Church, near Bradford, built in 1840, at the sole expense of the eminent firm of the Bowling Ironworks, for the use of their numerous workmen, and of the surrounding population. It is composed entirely of stone and iron, excepting the rafters, &c. of the roof, which are, consequently, the only combustible portion. There is a spire 186 ft. high; and, from the lofty site of the building, it forms altogether an object of considerable interest. The Lancet Gothic capitals are of very elaborate iron-casting; and there is an immense quantity of ironwork introduced into various parts of the fabric: 19 years' experience has proved that the building is most substantial; and on a recent visit by the architect, he found all to be exactly as it was when the contractors left it.— Wolverhampton Chronicke.

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BEN. BIRAMO

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MINERALS which are the components of rocks, or occasionally imbedded in them:—Quartz, Agate, Calcedouy, Jasper, Garnet, Zeolite, Hornblende, Augite, Asbestus, Felspar, Mica, Talc, Tourmaline, Calcaroous Spar, Floor, Selenite, Baryta, Strontia, Salt, Sulphur, Flambago, Bitumen, &c.
METALLIC ORES:—Iron, Manganese, Lead, Tin, Zinc, Copper, Antimony, Silver, Gold, Platina, &c.
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Mr. TENNANT gives PRIVATE INSTRUCTION in MINERALOGY, with a view to FACILITATE the STUDY of Geology, and of the application of Mineral Substances in the Arts, illustrated by an extensive Collection of Specimens, Models, &c.

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PRIZE IMPLEMENT has again been VICTORIOUS at a TRIAL at AVONDALE
CATTLE SHOW, where it was pronounced the BEST CHURN, after a fair trial with two
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By the ARTIZAN CLUB.—Edited by Joins Bourse, C.E.

"The great merit of the present work is the vast quantity of information which it affords as to details of construction. In this respect is seems unrivalled \* ". It contains a vast store of invaluable facts."—Guil Engineer and Architect's Journal,
London: Longman, Brown, Green, and Longmans.

THE MINING ALMANACK, FOR 1851.—Under the immediate Patronage of His Royal Highness PRINCE ALBERT, K.G., Lord Warden of the Stannaries, &c.—Edited by HERNY ENGLISH, Editor of the Mining Journal, &c.

It is much to be regretted that the exertions made by the Editor in endeavouring to procure returns from the several mines should have met with so much apathy on the part of agents and adventurers—it being the object to render the pages of the Mining Almanack a work of reference and information, calculated to uphold and advance the mining interest. It is still to be hoped that, in the absence of assistance from such parties, and which he had every right to expect, information will be rendered by others, so as to effect the object in view; while it is to be regretted that those whose interests are most concerned should have thrown impediments in the way. All communications will be treated as confidential, while it will be a duty imposed on the Editor to notice those mines from which information is declined.

REPLIES to the following QUERIES will be esteemed a favour:—Situation and Name of Mine;—Term of Lease;—Dues;—Amount Paid per Share;—Calla during the past Twelve Months;—Dividends Paid;—Quantity of Ore Sold;—Amount of Money;—Offices in London;—Name of principal Agent and Purser;—with such further information as the offices of the "Mining Almanack," 25, Fleet-street, London.

150

Offices of the "Mining Almanack," 25, Fleet-street, London.

COUGHS, ASTHMA, AND INCIPIENT CONSUMPTION are EFFECTUALLY CURED.—KEATINGS'S COUGH LOZERGES have been proved by long experience to be equally efficacions and powerful in those severer forms of pulmonic affections—asthma, incipient consumption, chronic bronchitis, and spasmodic cough—as in the milder, but often not less troublesome disorders of the throat and chest, winter cough, hoarseness, difficulty of breathing, and irritation of the throat, &c. Their entire freedom from all deleterious ingredients and opiates, whilst it renders Keating's Cough Lozenges a safe remedy for the most delicate female or youngest child, has caused them to be held in the highest esteem by public speakers, clergymen, and professional singers; but, perhaps, the high approval which is bestowed upon these lozenges by some of the most eminent of the faculty, is the best and most convincing guarantee of their safety, efficacy, and purity.—Prepared and sold in boxes, is, 14d., and ins. 29. 9d., 45. 6d., and ios. 6d., each, by Thomas Keating, Chemist, &c., No. 79, St. Paul's Churchyard, London. Suld retail by all druggists, and patent medicine vendors in the kingdom. IMPORTANT TESTIMONIAL.

Church-street, Folkestone, Nov. 22d, 1848.

Church-street, Folkestone, Nov. 22d, 1848.

To Mr. Hammon, chemist of this town, for some relief; he recommended me your "Cough Loceages," which I am happy to say cured me in a week. I beg most cordially to recommend them, and request you will not heatiate to make this lette: public; such a valuable remedy cannot be too highly recommended.

JOHN HILL, Barte

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NAP DOWN CONSOLS SILVER-LEAD MINING

COMPANY, -COMBMARTIN, NORTH DEVON. OFFICES - No. 52, THREADNEEDLE-STREET, LONDON.

In 3000 shares, of £2 each.—Deposit £1.

CONDUCTED ON THE COST-BOOK SYSTEM.

-Messrs. Masterman and Co., Lombard-street, London; and the National Provincial Bank of England, Barnstaple. Secretary-Mr. James Lane, No. 80, Threadneedle-street.

following are some of the advantages under which this Company will perations:—

1. The lodes have been laid open to such an extent, that returns may soon be made.

2. The works are in progress of clearing, and a splendid new combined cylinder steam imping engine, built by Sims, of 100-horse power, with an entire set of pumps, are

amping engine, built by Sims, of 100-horse power, with an entire set of pumps, are sady for work. 3. Labour is plentiful and coals cheap, and there are smelting-works in full operation

3. Labour is plentiful and coals cheap, and there are smelting-works in full operation close to the mine.

This Company may be fairly stated as one of the finest opportunities ever presented to the notice of the public for engaging in a highly profitable undertaking, at a very moderate expenditure. An extraordinary and important discovery has recently been made by shoding on the back of the main lode—nearly 2 tons of silver-lead have been raised in blocks of from 1 to 8 cwits. each. The lode, at this depth, carries a fine gossan, rich in silver; and in the captain's report of the 25th November last, he says—"On Saturday last several pieces of solid ore were discovered in ground that has never been explored—the largest piece weighing 364 lbs., and is an exceedingly splendid specimen."

In addition to the rich deposit of lead and silver with which the mine is stored, there is likewise a copper lode, of a promising description, from 3 to 35 feet wide.

Applications for shares to be made to Mr. Thos. Allsop, stock and sharebroker, No. 1, Royal Exchange-buildings, London; Mr. James Lane, secretary, at the offices of the Company; and William Thorne, Esq., Barnstaple, Devon 2 or of the following brokers:

J. Davies, 38, Tower-buildings, Liverpool; E. Speakman, Exchange-chambers, Manchester; C. Beardshaw, Leeds; J. Tronside, Sheffield; Messrs. T. W. Flint and Co., Hull; G. Trickett, Post-office Chambers, Plymoutin—to whom all communications may be addressed, and of whom prospectuses and plans may be obtained.

\*\*XYHEAL GILL MINE—ST. CLEER AND ST. IVES.

WHEAL GILL MINE-ST. CLEER AND ST. IVES.

infort CAPITALISTS to MINING, as being the most as AF is and it not that the DIVIDEND TANKS MINES, and have on hand several other Mines, which will insure to capitalists the notice of the Mines, and have on hand several other Mines, which will insure to capitalists the notice of the Mines, and have on hand several other Mines, which will have been capitalists the notice of the Mines, and have on hand several other Mines, which will be able to the Mines, and have on hand several other Mines, which will pay the purchaser, at present property in the property of the Mines of the Mines of the particles of S.T. MICHAEL'S CALEM, CORNHILL, LONDON.

Mr. R. TRIPP, MINING AGENT, has FOR SALE SHARES in most of the best DIVIDEND-PAYING MINES and others, which will pay the purchaser, at present property in the several similar rich lodes of index rooms to the pay the several services of the salest and most unexceptionable investment.—Office hours from Ten to Five o'clock and the several services of the salest and most unexceptionable investment.—Office hours from Ten to Five o'clock of the salest and most unexceptionable investment.—Office hours from Ten to Five o'clock of the salest and most unexceptionable investment.—Office hours from Ten to Five o'clock of the salest and most unexceptionable investment.—Office hours from Ten to Five o'clock.

MINES —MINES ALLOS AND AGENT MARKED AND AGENT

bankers, Exeter.—The calls will not exceed £1 per share every two months.

BEFORT OF EVAN HOPKINS, RSQ.

This mineral property is "situated in a valley, a few miles north of the Trelawny Lead Mines. The general character of the formation is a variegated clay-slate, traversed by numerous light blue clay veins, and also by cross-courses running from the Trelawny Lead Mines, and presenting every indication in structure, composition, configuration of the valley, and the gossan, for making large bunches of lead ore in depth, but more especially southward. On thie west side of the main cross-course the rock becomes more hornblendic, and the east and west lodes have produced many tons of copper ore, with suiphuret of zinc; a large bunch was also found in the east side of the valley. This is, as regards lead, a most important sett, and deserving immediate attention; and although it predominates in lead and zinc, yet large masses of copper ore may be found westward from this point within the limits of the sett.

13. Austinfriars, London.

EEFORTS OF MESSES. JOHN SEYMOUR, JOHN SPARGO, AND H. TALLOR.

We have gone over this sett, and find therein two excellent lead lodes, which will produce abundance of silver lead at a very shallow depth, inasmuch as large rocks of lead may now be broken in the 16 fm. level. These lodes are not far from the rich mines of Trelawny and Wheal Mary Ann. They are similar, and can be cut at once at the 54 fm. level; so that you have a good lead mine at once. The copper lodes could only be seen on the backs, where they have a very good appearance; and we have been informed, by parties who worked on the mine last, that there is a fine course of copper or in the bottom level, the last stone taken from the mine weighing upwards of 600 lbs. We have seen some of the ore, which is rich. We early recommend you to fork the mine immediately you will then have a profitable mine. The enormous quantity of work done, the great outlay that has taken place, the actual discovery of a rich course of lead, and a

REPORTS OF CAPTAINS S. RICHARDS AND JOSEPH KEMP.

We have carefully surveyed the surface of this sett, which is a very extensive one, and find there are three lodes running through it, one east and west, or copper lode, and two north and south courses, or lead lodes. The grounds about these lodes is a light blue reck, if an standard in the set of the castern lead lode, as the pit where it has been opened on is full of water. We saw, however, some flookan, quartz, &c., which was broken from this lode, and judging from its appearance, should say it is well worthy of trial, the ground being very congenial for lead, and we are informed that the lode is a large one. The western lead lode is about 2½ feet wide, composed of capel, quartz, and gossan—a very promising lode. We would recommend that this lode be first opened on the back, in places which would show the most promising part to commence spirited operations on; this lode is about half a mile cast of the Trelawny lode, and is running nearly parallel with it. We had an opportunity of seeing the back of the copper lode about 60 fathoms from the engine shaft, where it contains a great with the two lead lodes and the work already done—viz. shafts sunk, levels driven; we consider Wheal Gill a fine speculation.

S. RICHARDS, Trelawny Mod. Of the control of the

BRITISH MUTUAL GOLD MINING COMPANY. REGISTERED PURSUANT TO ACT OF PARLIAMENT Right Hon. LORD ERSKINE Chairman. COUNT LOUIS DE MASSIAC, Deputy-Chairman. Capital £50,000, in 50,000 shares, of £1 each.

Capital £50,000, in 50,000 shares, of £1 each.

ESTABLISHED for WORKING MINES in CALIFORNIA, upon the principle of the JOINT CO-OPERATION OF LABOUR AND CAPITAL.

The Miners employed by this Company, whose comforts and protection are assured upon the rules and conditions contained in the prospectus, are to participate with the shareholders in the profits of the venture.

Shares to be paid on allotment—no calls or other responsibility whatever.

Applications for shares and prospectuses may be made at the Company's offices, No. 30, Great George-street, Westminster, where every information will be given.

Miners and others desirous of joining this Company on the terms of the prospective way apply.—Prospectuses forwarded by post.

PATENT IMPROVEMENTS IN CHRONOMETERS, WATCHES AND CLOCKS.

E. J. DENT, 82, Strand; 33, Cockspur-street; 34, Royal Exchange (clock tower area), Watch and Clock Maker, If Y aPPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of his chronometers, watches, and clocks, is secured by three separate patents, respectively granted in 1836, 1840, 1842, Silver lever watches, jewelled in four holes, if gs. each; in gold cases, from £8 to £10 extra.

DENTS PATENT DIPLIEDOSCOPE.

DENT'S PATENT DIPLIEDOSCOPE,
or Meridian Instrument, is now ready for delivery,—Pampillets containing a description
and directions for its use 1s. each, but to customers gratis.

THE PATENT OFFICE, 18, GREAT GEORGE-STREET, THE PATENT OFFICE, 18, GREAT GEORGE-STREET, and FOREIGN PATENTS and REGISTRATION OF DESIGNS, is under the direction of Messrs, WILSON and COOKE, Consulting Engineers..." Hints to Inventors" to be had gratis, on application. Inventors assisted in ascertaining the novelty of their inventions, and in obtaining capitalists to carry them out.

Open to the use of Experimentalists for Patents or other purposes, is under the direction of Mr. MAUGHAM, formerly Lecturer at the Royal Adelaide Gallery.

ANALYSES and ASSAYS of all productions, Metallurgical and Manufacturing, and Investigations of every description suitable to the wants of Inventors, Patentees Tahang facturers, and persons interested in Mining Property.

SEWERAGE OF LONDON.—The ATTENTION of the COMMISSIONERS appointed to determine upon the MOST EFFICIENT MATERIAL for the CONSTRUCTION of the SEWERS OF LCNDON, is particularly directed to the ASPHALTE OF SEYSSEL, which more than any other material is applicable to the CONSTRUCTING and INTERNAL COATING of BRICK CULVERTS and COMERCE MANNELS OF DELINICAL

cable to the CONSTRUCTING and INTERNAL COATING of BRICK CULVERTS and OTHER CHANNELS for DRAIMAGE.

The experiments made by the Royal Artillery on the embrasures of Plymouth Citadel, constructed of Seyssel Asphalte Brickwork, under the orders of the Hon. Board of Ord nance, have fully proved the superiority, adhesiveness, and strength of Seyssel Asphalte over all other cementitious compositions. A printed account of these experiments can be had on application to Seyssel Asphalte Company—"Claridge's Patent"—Etablished 1838.

Note.—The application of the Asphalte of Seyssel is specially recommended by the Commissioners on the Fine Arts for covering the ground line of brickwork in marshy situations, and it has been suggested that it would be peculiarly applicable for covering the areas of closed grave yards, and for the construction of catacombs.

WHEAL ENYS TIN MINE, WENDRON, CORNWALL.

— Held under lease for 21 years, nearly 20 of which are unexpired, at 1-18t use; to be reduced to 1-20th as soon as an engine shall be erected.

Divided in 1070 shares, and conducted strictly on the Cost-book System, under the auperintendence of a Committee.

Mr. JOHN TRETHOWAN, Little Falmonth, Purser, Messrs. TWEEDY & CO., Falmouth, Bankers.

Divided in 1070 shares, and conducted strictly on the Cost-book System, under the superintendence of a Committee.

Mr. JOHN TRETHOWAN, Little Falmouth, Parser.

Mossra TWEEDY & CO., Falmouth, Bankers.

WHEAL ENYS MINE, held under lease, from John Samuel Enys, Esq., of Enys, is situated at PORKELLIS, in the parish of Wendron, which it is almost unnecessary to state is one of the richest and most extensive tin districts in Cornwall. It extends about half a mile from north to south, and nearly one mile from east to west, on the ran of the extraordinary number of 29 lodes, which have all produced in from surface, to the adit level; some of them in very large quantities.

The mine has been worked from time to time by various parties of poor adventurers, who unfortunately never possessed means to erect machinery, with the exception of the last party, who worked between 30 and 40 years since. These men managed to creet a water-wheel, on Trevarno and Buck's Lodes, which was worked successfully and profitably during the winter months; but in summer they had no water at surface, although too much in the mine to be kept under effectually by horses. With even these disadvantages they persevered, sank several fathoms bolow the adit, returned large quantities of tin, and when ultimately obliged to abandon the mine, left, as stated by old men, who worked there up to that time, a rich bottom of tin, 40 fathoms in length.

From that period nothing has been done, until about four years since, when the present company obtained the grant and subsequently the lease.

Up to the present time, they have cleared, secured, and continued the adit at a con siderable expense (which is about 22 ms. from surface) throughout the sett. They have also cleared and secured several shafts, and driven cross-cuts, to intersect the lodes, which have been invariably found worked away at that level; but even from arches left by the old men, they have returned £400 worth of tin, in quality not to be excelled in the country, thus confirming all tradition

W. Fenton, 5, White Hart-court, Lombard-street, London; Mr. John Davies, Tower-Buildings, Liverpool; or to Mr. Williams, accountant and mine broker, Green Bankterrace, Falmouth.

AGENTS' REPORTS.

The following are extracts from reports of mining agents, who have inspected the mine:
Capt. Richard Eustice, of Stray Park Mine, says,—"Wheal Enys is in granife, with a beautiful-elvan course, running through the sett, near Trevario and Buck's Lodes."

\* "There is no tract of land, to my knowledge, in the county, so abundant in mineral veins, lying together, in such a convenient position for a well-arranged system of mining, and so situated as to render a small steam-power sufficient for the proper drainage of the whole." " " "1000 will be sufficient to provide steam-power and pitwork for draining the mine; and for a few months, a further outlay of from £70 to £80 per month for labour and materials (without taking into consideration the tinyou must raise), immediately on getting under the old workings, or the burrows, which will pay for dressing, if you bring the water to surface; a new mine will be opened, which I have no donbt, will quickly repay the outlay, and ultimately realise great wealth.

\* "There cannot be a doubt, that Wheal Enys, properly worked, will prove one of the most profitable mines in the county." Capies, Maxim and Bankert say,—"When the last party abandoned the mine, about 40 years ago, from want of machinery, they left in the bottom level, on Trevarno lode, a rich bottom of tin, 40 fms, in length; very rich courses of tin were also left from the same cause on Buck's lode." ""The water from the greater part of the lodes can be drained by a 30-inch cylinder engine, which can be erected for about £600. Clearing and securing shafts and levels, with necessary erections, will require about £100 more; so that a capital of about £200 will make this one of the most profitable and lasting mines in the county." """By drawing the water to surface, you will be enabled to dress the burrows, and return from th

TREMAR COPPER MINE-ST. CLEER, CORNWALL.

MAR COPPER MINE—ST. CLEER, CORNY
In 1924 shares.—Deposit £! per share.
Purser—Mr. WILLIAM CHANNING, 7, South-street, Exeter.
Manacing Agert—Captain Rule.
Bankers—West of England and South Wales District Bank, Exeter.
Secretaraky—Mr. J. Jury, Exeter.
OFFICES—3, CASTLE-TERRACE, EXETER.

Secretary—Mr. J. Jury, Exeter.

OFFICES—3, CASTLE-TERRACE, EXETER.

This MINE is situate in the parish of ST. CLEER, near Liskeard, adjoining and parallel to the South Caradon Mines, whose riches are almost unequalled; and the vast profits realised by the fortunate adventurers are too well known to need comment—£5 per share was only expended when they came to enormous riches. It also nearly adjoins the justly celebrated and very profitable West Caradon Mine, being situated a little more than a quarter of a mile south thereof, with lodes running parallel, and near the junction of granite and kills—a point well-known to miners to be productive; with a constant supply of water for dressing purposes, and other natural advantages, which makes it a more desirable speculation than any other in this favourable mining district.

The sett is extensive, and through which, running cast and west, from half to three-quarters of a mile, many very large and promising lodes have been discovered, together with the West Caradon great cross-course, extending from north to south, throughout the sett, and in the very centre of the mine.

An adit level has been driven north, from 70 to 80 fathoms, and has intersected this east and west lodes, averaging 2 to 2½ feet wide, producing good stones of yellow ore; at the present end also the iode is 2 ft. wide, of the same splendid appearance and character, as that of the South and West Caradon.

A shaft has also been sunk about 5 fathoms, on a lode of the same kindly appearance, 2 feet wide, with very regular walls. The gossan, peach, prian, black and yellow copper ore, are of a very rich description.

It now, therefore, only remains necessary to erect a 40-inch cylinder steam-engine, with pumps, &c., and sink the shaft to a moderate depth, the estimated costs of which are about £1500. When this is accomplished, there can be very little doubt but the shareholders will congratulace themselves on the stability and very profitable nature of their adventure. For, as a proof of the opinion ente

Dec., 1850.—We find your sett is extensive, being tum of ground through which your principal led-Dec., 1850.—We find your sett is extensive, being about half a mile square. The stratum of ground through which your principal lodes run is a soft killas, or clay-slate, a little south of the junction of the killas and granite strata, and nearly parallel with those which have proved so productive in the immediate neighbourhood (Caradon). There seems to be several lodes in the sett, but two only are sufficiently opened to justify us in speaking of. The south lode, opened in the field, is about 2 feet wide, almost wholly composed of a very fine gossan, presenting as promising an appearance as it has ever faller to our lot to observe so near the surface. The north lode is cut in the adit, and explored a few fathoms east of the cross-cut; is large in the east end, produces stones well spetted with yellow copper ore, and will probably prove a productive lode in depth; its appearance at present warrants such a belief, and our advice to you is to prosecute the mine with vigour, having a strong hope that you will be amply rewarded for your cutlay.

J. OSBORN, Wheat Venton.—H. TAYLOR, West Caradon Mine.

J. OSBORN, Wheal Venton.—H. TAYLOR, West Caradon Mine.

South Caradon Mine, Dec. 2.—We have visited Wheal Tremar, and find an adit level extended north from 70 fathoms to 80 fathoms; there are three east and west lodes to be seen in this adit; on the course of one of them, a lode 2 feet or 2½ feet wide—a level has been driven east about 20 fathoms, throughout the whole of this distance; the lode produces atones of good, yellow ore; and, considering the depth (not being more than 6 fms. deep) it has altogether a promising appearance; and in the present end is about 2 feet wide, of the same kindly character. The lode you have cut and sunk the shaft on, in the field, is about 2 feet wide, with very regular walls, and in a nice channel of killas, not far from the granite. We consider the concern a fair speculation, and would advise you to presecute its developement with all possible speed, as the indications are quite as y od as can be reasonably expected at the depth—B. DUNSTAN, West Caradon Mine.

It is believed that very little more than £4 per share will be required before the highly respectable shareholders, an early application to secure a portion of the companing sharebrokers, Tavistock; Mr. James Crofts, 4, King-street, Exeter; a the star, at the office of the company, 3, Castle-terrace, Exeter; at Messra. Syms and Comining sharebrokers, Tavistock; Mr. James Crofts, 4, King-street, Exeter; at the first and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint and Co., Lombard-street Chambers, Clement's-lane, London; Messra T. W. Eint Liverpoo

#### PRICES OF MINING SHARES.

It being difficult to obtain a correct knowledge of all sie mines in our list, we trust that agonts, and others interested, will assist us, by forwarding any additions, or corrections, with which they may be acquainted—our object being to present it as accurate as possible. We have also added a column to note the actual business transacted; but which, without the constant assistance of brokers and agents, cannot become so com-

Share		Paid.	Last F	rice.	Transaction
4000	Aylesborough (tin), Sheepstor	2 2 4	6‡	647 :	61 64
1024	Borringdon Park (silver-lead), Plympton	102	3	1 .	31
1500 4060 4160	Bridford Wheal Augusta (lead), Bridford Devon and Courtenay Consols (copper).  Devon Great Cousols (copper), Tayistock	16	270	14 280	24
768 250	Devon and Courtenay Consols (copper). Devon Great Consols (copper), Tavistock Devon Great Tincroft, North Bovey. East Birch Tor (fu), North Bovey East Crowndale (fu), Tavistock	3	3	6	
2048 4000	East Crowndale (tin), Tavistock East Gunnis Lake Junction (copper) East Tamar Consols (silver-lead)	74	1	6	14
9000 2048 512	East Tamar Consols (silver-lead) East Wheal George (cop.), Walkhampton East Wheal Josiah (copper), Tavistock	1	10		18
4000	East Wheal Russell (copper), Tavistock	- 1	6	8	68
1500	Exmoor Eliza (copper), South Molton Hennock (silver-lead), Hennock Kingsett and Bedford (lead and copper)	34	28	2	24 24
1742 3000	Lannierooe Wheal Maria (copper & tin) Nap Down (silver-lead), Combmartin	1	1		1
1024 1024 1000	New East Crowndale (copper and tin) North Wh. Robert (copper), Walkhampton Peter Tavy and Mary Tavy (copper) Plymouth Wheal Yeoland (tin), Plymouth	2 2 24	1		
512 2048	Plymouth Wheal Yeoland (tin), Plymouth	64	31	4	
256 256	Runnaford Coombe (tin) South Friendship Wh. Ann (copper & tin) South Molton (lead) South Plain Wood (copper), Ashburton	124	28	30	
1024 9000	South Tamar (stiver-lead), Beer Perris	34	6	24	24 24
9600 687 1024	Tamar Consols (silver-lead), Beeralston Tavy Consols (copper), near Tavistock West Downs (copper and tin), Whitchurch	8 .	4		3
1024	West Wheal Friendship (copper)	3 .	3	4	34
1070 256	Wheal Benny (copper), Calstock	194 .	16		
256 1024	Wheal Crebor (copper), Tavistock	24		4	. 34 34
1024 1024 764	Wheal Emily (antimony and lead) Wheal Fatescue (copper), Tavistock Wheal Franco (copper), near Tavistock	41 .	54 64	2 14	. 5
126	Wheal Friendship (copper)	120 .	120		
2048 2000	Wheal Harris (lead), near Tayistock	4 .	1	2	. 1
1024 5000	Wheal Langmald (lead)	4:	1 1 2 2	***	. 21 4
1024	Wheal Russell (copper), Tavistock  EAST CORNWALL DISTRICT.	4 .	4 4		. 6
3650	Bayden (silver-lead)				
1024 5000	Bodmin Moor Consols (tin and copper)	1 .	4		. 42
496	Bodmin Wheal Mary (tin)	14	8	9	
4000 1168	Calstock United (copper)	7	5	***	. 5
1536 3000	Carthow Consols (cop. & lead), Wadebridge Carthow Consols (cop. & lead), Wadebridge Carthew Consols (cop. & lead), Wadebridge Carthew Consols (cop. & lead), Wadebridge	4	7	•	:
500	Combiawn (lead), Callington	5	:: 2		
2560	Drake Walls (tin and copper), Calstock.  Duke of Cornwall	64	7		. 2
1024	East Polgooth (tin)	6	8		
1000	East Trescoll (tln), Lanivet, near Bodmin Fowey Consols (copper), Tywardreath	1	2	***	
256 2000	Gonamena (copper). St. Cleer	5	15		
024	Great Beam (tin). Great Sheba Consols (tin and copper) Great Wheal Mitchell Cons. (cop.), Lanivet	3		** *	
513 000 024	Growa Slate Company, Camelford	5 ··· 5 ···	5	:::	
512	Hawkmoor (cop.), Calstock, Gunnis Lake Heignston Down Con. (copper), Calstock Herodsfoot (lead), near Liskeard	24			4
000	Holmbush (lead and copper), Callington.	24 ··· 10 ··	. 201	***	211
128 256	Mineral Court (tin), near St. Austell	34 ··· 224 ···	50	***	. 50
256	Modiforham & Marrabro' (copper & lead)	18			25
024 128 406	North Fowey Consols Okel Tor (lead) Par Consols (copper), St. Blazey Penhauger	554	650	***	
048	Pentire Glaze(silver-lead), St. Minver	5	9		. 8
256	Roche Rock (tin), Roche, near St. Austell Rocks Mine (tin), Roche, near St. Austell South Caradon (copper), St. Cleer	5	205		100 1224
256 256	South Wheal Josiah (copper), Calstock	2	. 4	****	
999 128 048	St. Minver Consols (silver-lead)  Tokenbury (copper), St. Ive. Liskeard  Trabell Consols (tip and copper), Lianivet	1 8# 14	8		
512	Tokenbury (copper), St. Ive, Liskeard Trebell Consols (tin and copper), Llanlvet Treburget United (lead), St. Teath Treggar Consols (antimony & silver-lead)	1 ::		****	
256	Trehane (silver-lead), Menheniot	14 .	15	** **	9 10
112	Trethevy (copper), St. Cleer	15	. 67		
000 256 512		20	. 1024	105	105
500	West Par Consols (copper), St. Blazey	5	. 11	****	
300	Wheal Arthur (lead), near East Wh. Rose	17	. 49		
1324	Wheal Calatock (copper), Calatock	9	. 9	** **	
000	Wheal Grose (silver-lead, copper, &c.) Wheal an-Grose (tin), St. Columb Major Wheal Kingston (copper and silver-lead)	5	. 56		
000	Wheal Langford (copper and silver-lead) Wheal May (silver-lead and copper)	1 ::	. 14	****	21 21
119	Wheal Mary Ann (lead), Menheniot	5 ···	. 60 1 6		66 671 70
128 156	Wheal Pollard (copper), St. Cleer I Wheal Sarah (silver lead), St. Kew	5	: =	****	
512	Wheal Spry (copper and lead) St. Columb	8	. 1	****	
00 20 56	Wheai Trelawny (silver-lead), Liskeard.	34	. 49 50	51	50 51 52
24	Wheal Venton (silver-lead), Liskeard Wheal Vincent (tin), Alternum	34	. 10	****	9 91
28 1	Wheal Violet (tin and cop.), St. Stephens Wheal Vyvyan (cop. & tin), Constantine 6	5	. 51 6		54
8T. A	Budnick Consols (tin), Perranzabulce 5	21			
12 1	East Tywarnhayle (copper), St. Agnes East Wheal Leisure (copper)	8	. 291		21 650
262	North Wheal Leisure, Perranzabuloe	14	. 12	****	650
000 1	Polberro (tin), St. Agnes	3	: 23	****	
000	Yest Wheel Post (lead) Newlyn	0 21	. 471	****	
100	Wheal Golden (lead), Peranzabuloe	2	. 56		
	GWENNAP DISTRICT,	3		****	
56 ( 28 (	Carvanuall (copper), Gwennap 2 Comfort (copper), Gwennap 5	5	. 100 10	5	70
96	Great Consols (copper), Gwennap100	0	. 250	****	10
98	Tresavean (copper), Gwennap 1	5	. 225	****	
200	Treviskey and Barrier (copper)	0	. 130	****	266 110
25	West Wheal Jewel (tin and copper) 1 Wheal Trefusis (copper), Gwennap		. 2	****	19 20
50750h i s	WEDNISTED DISTRICT	2	. 7		61 71
28 1 56 I	ast Carn Brea (copper), Redruth	4	3	****	
56 I	ast Tolgus (copper), Redruth	0	20		201 45 50
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40 15	outh Tolgus (copper), Redruth  Yeletgh Consols (copper), Redruth  Yest Buller (copper), Redruth  Yheal Daniell (copper), Chacewater  Wheal Elisabeth (copper), Redruth	6	2		3 31
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#### COMPANIES PROCEEDING UNDER THE WINDING-UP ACT.

ARIGNA IRON AND COAL COMPANY.—A petition has been presented by Mr. Frank Gibson, of Westmoreland-place, City-road, praying for the dissolution and winding up of this company.

ASHBURTON UNITED MINES.—A petition for the dissolution and winding-up of this company has been presented to the Lord Chancellor, by Mr. Joseph Maitland: it is expected to be heard before Vice-Chancellor Sir Knight Bruce, on the 24th instant.

WHEAL CONCORD.—The first meeting for proceeding with the winding-up of this company took place vesterday before Master Brougham, who undertook the winding-up for Sir Wm. Horne, in whose office it had been originally fixed. The official manager (Mr. Soulby) said he proposed to go into the proof of the unopposed cases only to-day, and they amounted to about 40. He then proceeded with the formal proof—viz: that the company had been conducted on the Cost-book Principle, and the names of the contributories who did not oppose were regularly entered, &c. The proceedings then adjourned.

oppose were regularly entered, &c. The proceedings then adjourned.

Direct West End AND Croydon.—Yesterday Master Tinney granted tapplication of the solicitors of Sir Henry Webb, who had been placed upon the list of contributories, and called upon to pay a sum of 75l. towards discharging, with his co-provisional committeemen, the liabilities of this company, to have his case reviewed on payment of costs. An application on behalf of Sir John Key, who stands in a similar position, to have his case reviewed, on the ground that he had not received proper notice, was also granted, with the concurrence of Mr. H. Harris, solicitor to the official manager, giving him permission to file affidavits in support of the statement of non-service.

London, Birmingham, and Bickinghamshipe Rangara.

permission to file affidavits in support of the statement of non-service.

London, Birkingham, and Buckinghamshire Railway—Curious Application.—On Monday a gentleman applied to Master Kindersley under the following circumstances:—It appeared that in the course of an attempt to windup this company's affairs, the petitioner, who applied to the Court for doing so, had subsequently sworn that he was not a contributory, and that consequently he had no right to appear as a petitioner for the purpose. His Honour in this this state of things decided that he could not go on with the inquiry, and had suggested that the order of the Court had better be rescinded. The object of the applicant was that he might be relieved from the anxiety attendant from having his name placed on the list of contributories as liable, and he now applied for summonses against the official manager, to show cause why his the applicant's) name should not be struck off the list.—Application granted.

Lancashire, Cheshire, and Staffondshire.—An order has been obtained for the delivery of the books and papers, now in possession of Messers. Burdett, of Manchester, and Messrs. Dearden and Co., of Rochdale the late solicitors. The debts outstanding are alleged to amount to between 30001. and 40001.; but out of the 95,000 applications for shares only 635 paid the deposit. Boston, Newark, and Sheffield.—Master Richards has directed Messrs.

A0007.; but out of the 95,000 applications for shares only 635 paid the deposit.

Boston, Newark, and Sheffeleld.—Master Richards has directed Messrs.

Dean and Goderich, solicitors for the directors of this company, to bring in, as requested, a counter statement of facts to that lodged with him by the petitioner for the winding up of the company, and which called upon them to account for the due expenditure of the deposits received by them from the shareholders, amounting to 168,000l., and the greater part of which, it is alleged, was disposed of in reckless and extravagant expenditure.

Boston Ann Trugary Angus Rayur Compuny — A call of 161, per share has

was disposed of in reckless and extravagant expenditure.

BOSTON AND THORPE ARCH BATH COMPANY.—A call of 151, per share has been declared on the contributories to this company, payable on the 14th of February, for the discharge of the company's liabilities, amounting to 18001, exclusive of the expenses incurred in winding up the company. The financial statement of Mr. Thomas Head, the official manager, sets forth that the number of contributories was 62, holding 224 shares, and that the call of 151, per share, calculated to produce 33601, would be indispensable, after allowing for failures and defaults. A meeting of shareholders had been held upon this subject, and they had agreed to the call.

Norm of Feotupe Process of the contributor of the call of

NORTH OF ENGLAND BANKING COMPANY.—Mr. Lewis (on behalf of the surviving executors of J. Shafton) has obtained the certificate of his Honour Master Farrer, to entitle him to appeal to the Court against his Honour's decision, calling upon the executors to pay to the official manager the sum of 36,587L out of the assets of the testator to pay off the liabilities of this bank. His Honour adjourned his decision, upon an application on behalf of the same party, to be allowed as a contributory to inspect all the documents on the file of proceedings for this purpose. edings for this purpos

IMPERIAL BANK OF ENGLAND.—Mr. Soulby has obtained an appointment for Wednesday week to proceed further with the list of what are called the Is. shareholders in this company, who reside in Manchester, Liverpool, and the north, with the view of ascertaining whether further evidence could not be obtained to fix them, and to distinguish their case from Mr. Aspinall, whom his Honour (Master Farrer) decided upon the evidence at present before him not to place upon the list as liable. The appointment was taken with the concurrence of Messrs. Bower, and Sharp and Field, who appeared for several parties interested.

Messrs. Bower, and Sharp and Field, who appeared for several parties interested.

Marylebone Bank.—Master Kindersley has decided that the name of Mr. Anthony Brooke, who had transferred his shares to a second party who had become a bankrupt, and who had resumed all the liabilities in connexion with them, should not be placed upon the list of contributories. The claim of Mr. E. Walker, one of the masters in the common law courts, and originally of the directors of this company, for 16,000/L, was referred for arbitration to the solicitors and counsel of the parties concerned.

Liverpool Marine Assurance.—Sir G. Rose has given directions to Mr. Hutton, the official manager, with reference to the course to be pursued in winding up this company's affairs, the operations connected with the carrying on of which exhausted, it is alleged, all the paid-up capital, leaving a large amount of outstanding liabilities now to be discharged.

INDEPENDENT ASSURANCE COMPANY.—Yesterday the settlement of the list was proceeded with, the whole sitting being occupied with the consideration of the case of a contributory who had signed the Deed of Settlement for 150 shares, but who had not paid the deposit. It was alleged that the shares were for the benefit and use of Mr. W. Holt, the then brother and managing director of the contributory. After considerable discussion, the name was expunged from the list as ligble, Mr. Roxburgh intimating that the case would be taken on appeal to Lord Cranworth for his decision.

General Commission and Ship Loan Assurance Company.—Sir W. Horne hear the recent of the contributory was the official managers be not not be effected to the official managers, but we have not expend in the contributory bear of the contributory. After considerable the contributory has company to the official managers be not not proved in the contributory when he can be official managers, the contributory when the contributory was contributed to the official managers and the contributory when the contributory was contributed t

GENERAL COMMISSION AND SHIP LOAN ASSURANCE COMPANY.—Sir W. Horne has given directions to the official manager how to proceed in the winding up of this company's affairs, the outstanding debts of which are estimated at 7000 l.

COAL MARKET, LONDON.
PRICE OF COALS PER TON AT THE CLOSE OF THE MARKET

PRICE OF COALS FRE TON AT THE CLOSE OF THE MARKET.

MONDAY.—Carr's Hartley 13 9—Chester Main 13 6—Davison's West Hartley 13 9—East Adair's Main 12—Ravensworth West Hartley 13 6—South Pearerh 12—Tanfield Moor 14—Tanfield Moor Bute's 13 3—West Hartley 13 9—Wylam 14 6—Wall's-End Brown 13 6—Heaton 14 6—Lawson 13 6—Morrison 14 6—Eden Main 14 6 and 15—Braddyll 15 6—Hetton 16—Haswoll 16—Kepier Grange 15—Lambton 15 6—Richmund 15—Russell's Hetton 15 6—Stewart's 16—Denison 18 3—Heagh Hall 14 9—Thornley 15—Whitworth 12 6—Adelaide Tees 15 6—Seymour Tees 14—Tees 16—Begbie's Hartley 13 3—Cowpen Hartley 13 9—Derwentwater Hartley 13 9—Hartley 13 and 13 3—Nixon's Merthyr and Cardiff 21—Sydney's Hartley 13 9—Whitworth Coke 20 6.—Ships, 279.

WEDNESDAY.—Chester Main 13 6—Davison's West Hartley 14—East Adair's Main 12—Pelton Main 13—Ravensworth West Hartley 13 6—South Eden 13—South Peareth 12—Tanfield Moor 14—Tanfield Moor Bute's 13 3—Wylam 14 3—Wall's End Brown 13—Hedley 14 3—Lawson 13 3—Original Gibson 13 6—Hetton 15 6—Haswell 15 9—Lambton 15 6—Russel's Hetton 15 3—Stewart's 15 6—Caradoc 15 3—Heugh Hall 14 9—Kelle 16 6—South Kellee 14 6—Whitworth 12 6—Cleveland Tees 13 6—Richardson's Tees 13 9—Seymour Tees 14—Tees 15 6—Cowpen Hartley 14—Crossfields Morthyr 19—Nixon's Merthyr and Cardiff 20 6.—Ships at market, 189; sold, 66.

FRIDAY.—Chester Main 13 6—Davison's West Hartley 14—Ravensworth West Hart

Nixon's Merthyr and Cardin 20 6.—Ships at market, 189; sold, 66.

FRIDAY.— Chester Main 13 6—Davison's West Hartley 14—Rayensworth West Hart ley 13 9—South Peareth 12—Tanfield Moor 14—Tanfield Moor Bute's 13 3—South Eden 13—Wylam 14 9—Wall's-End Brown 13—Harton 14—Baxter 13 6—Riddell 14—Hilda 13 9—Hetton 15 6—Lumley 14 6—Belmont 14 9—Stewart's 15 6—Braddyll 15 6—Richmund 14 6—Russel's Hetton 15 3—Heugh Hall 14 9—Howden 14 6—Whitworth 12 6—South Durham 14—Tees 15 6—Cleveland Tees 13 6—Steyniour Tees 14—Adelaide Tees 14 9—Cowpon Hartley 14—Hartley 13—Nixon's Merthyr and Cardin 20 6.—Ships, 124.

rc	silvery of coals, &c., in the port of London during the year 1000.	
	Ships. Tons.	4.7
	Newcastle Main 977,206	
	Newcastle Wall's-End 1585 445,712	
	Sunderland Main 193,523	- 1
	Sunderland Wall's-End 2916 809,240	
	Stockton, Middlesbro', &c	130
	Blyth 482 112,555	
	Scotch	hal
	Welsh	41.3
	Yorkshire, &c 18,784	1941
	Liverpool 15 4,028	1
	Small coal 20,786	Ann
	Culm 12 2,936	18
	Cinders 62 6,424	2
		1 4
	Total	
	Imported in 1849 12,074 3,339,146	1
	Increase in 1850 559 214,158	1
	INLAND COAL.	1
	Brought by Canal nest the City's boundary at Grove Park Harts Tone 99 479	Old

Brought by Canal past the City's boundary at Grove Park, Herts Tons 29
Brought by Railway, upon which the City and other dues have been
received by the Chamberian:—

By the London and North-Western Company. Tons 44,665
By the South-Eastern Company. 5,286
By the Great Northern Company 4,944—55
In 1849, 19,222 tons were received by canal, and 19,639 by railway.